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ABSTRACT

This book, organized in six chapters and a bibliography, presents historical and current statistics and references on the supply of nursing personnel within the United States. Chapter 1 includes a discussion of national estimates of the active nurse supply and the distribution of these nurses by field of practice and by academic preparation. Chapters 2 and 3 focus on state distribution of registered nurses and licensed practical nurses and their characteristics, while chapter 4 depicts historical trends in nursing education. Presented are the number of nurse training programs, students, and graduates over the years. The data are organized in three parts which include trends in the geographic distribution of registered nursing and practical nursing students admitted to, enrolled in, and graduated from programs of basic nursing education; selected characteristics of these students; and post-RN students in baccalaureate and higher degree programs. Chapter 5 includes data on nursing personnel in various fields. Chapter 6 presents a discussion of four series of registered nurse supply projections to the year 2000. In addition, the chapter also presents two sets of projections for licensed practical nurses from the year 1985 forward. Tabular material is presented for the United States as a whole, with geographic region and state data presented whenever possible. (KC)

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SOURCE BOOK - NURSING PERSONNEL

September 1981

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U.S. Department of Health and Human Services
Public Health Service Health Resources Administration
Bureau of Health Professions Division of Health Professions Analysis
Hyattsville, Maryland 20782

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Preface

Nursing personnel are a vital part of the Nation's health care delivery system and constitute by far the largest group of health care providers. In 1980 there were nearly 1,119,000 registered nurses and 549,000 licensed practical nurses in active practice. Although exact counts are unavailable, a large addition to nursing personnel come from nursing aides, orderlies, and attendants employed in ancillary nursing services.

Questions and issues on the appropriate role of nursing personnel within the rapidly changing health care system are becoming increasingly complex. Changes in nursing roles and shifts in patterns of utilization of health services are but two of the many factors which impact on nursing personnel supply. Data on the numbers, distribution, and characteristics of these workers are essential to health care planners for accurate policy analysis and evaluation of the health care needs of the Nation as well as being vital for effective planning and coordination of actions to meet these needs.

These data are used extensively not only by the Bureau of Health Professiona, Health Resources Administration (HRA), for its programmatic needs but also by other units of the U.S. Department of Health and Human Services (DHHS), by various other Government agencies and planning groups, and by public and private organizations concerned with health manpower.

Source book data for nursing personnel were originally published as "Section 2 - Nursing Personnel" in the Health Manpower Source Book, Public Health Service Publication 263. The first edition was published in May 1953 and provided trend data on nurse manpower based on information collected from the nursing organizations, hospital and medical associations, the Public Health Service and other components of the Federal Government, and State agencies. This is the sixth edition of source book data published. Each maintained appropriate trend data and included additional statistics, analyses, and projections.

The present report presents the most recent data for the States and the Nation available as of early 1981. It continues to present the various time series that have been presented in the earlier editions fo this report. These time series are not provided in any other publications. It also discusses similarities, differences, and limitations of various nurse manpower surveys, interrelated with new definitions and new trends. This report also introduces, for the first time in the Source Book, data from the 1977 National Sample Survey of Registered Nurses, a study initiated by the Bureau in 1976 under contract to the American Nurses' Association.

It is hoped that this report will provide a useful reference volume for users and will be a valuable addition to the body of statistical knowledge on nursing personnel in this country.

This report was prepared in the Bureau by William E. Spencer, Division of Health Professions Analysis, Data Collection and Analysis Branch. Some materials as well as overall review and guidance were provided by Evelyn B. Moses, Acting Chief of the Branch. Selma L. Warsaw and Dianna Jessee provided the bulk of the secretarial services, and Rosalyn G. Roman edited the statistical tables in the report.

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Introduction

This material presents historical and current statistics and references on the supply of nursing personnel within the United States.

Chapter I presents a discussion of national estimates of the active nurse supply and the distribution of these nurses by field of practice and by academic preparation. Chapters II and III focus on State distribution of registered nurses and licensed practical nurses and their characteristics. Specific attention is given to discussions of similarities, differences, and limitations of data as between the various sources used.

Chapter IV depicts historical trends in nursing education. Presented are the number of nurse training programs, students, and graduates over the years. The data are organized into three parts which include: trends in the geographic distribution of registered nursing and practical nursing students admitted to, enrolled in, and graduated from programs of basic nursing education; selected characteristics of these students; and post RN students in baccalaureate and higher degree programs.

Chapter V includes data on nursing personnel in various fields of nursing employment and data on rates of compensation for nursing personnel in various fields. Data are presented on nursing personnel employed in hospitals, nursing homes, public health/community health nursing and occupational health nursing. The data were collected over a period of many years from the employers of nurses in these particular fields.

Chapter VI presents a discussion of four series of registered nurse supply projections to the year 2000 which, with the exception of assumptions regarding graduations from nursing education programs, utilize the same set of assumptions. In addition the chapter also presents two sets of projections for licensed practical nurses from the year 1985 forward.

Each set of tables is preceded by a discussion of the methods used in making estimates, evaluation of the reliability of source data, and background material needed for accurate interpretation of the statistics. Each table, therefore, should be considered in relation to the text, and to the definition of terms given in each chapter. Duplication of tables contained in current nursing publications has been avoided unless these are necessary for comparison or to maintain the trend data.

The term "nursing personnel" includes:

RNs - registered nurses

LPNs - licensed practical nurses (LVNs - licensed vocational nurses in California and Texas)

Aides, orderlies, and attendants

The titles "professional nurse" and "registered nurse" are used interchangeably. The former is maintained if it appears in previous publications; the latter is used for current nurse manpower data. Each term refers to a graduate nurse who has obtained a license to practice in the United States and has maintained or renewed that registration in some State. The term "aides" denotes nursing aides, nursing assistants, home health aides or homemakers, and others employed under nursing supervision to facilitate health care for the people.

Tabular material is presented for the United States, as a whole, with geographic region and State data presented wherever possible. United States is defined throughout as the present 50 States and the District of Columbia. Territories are shown at the end of the tables wherever information is available, but the figures are not included in the U.S. and regional totals unless specifically indicated. The four regions for which data are presented are those used by the Bureau of the Census and comprise the following States:

Northeast: New England and Middle Atlantic divisions

- Connecticut
- Maine
- Massachusetts
- New Hampshire
- New Jersey
- New York
- Pennsylvania
- Rhode Island
- Vermont

North Central: East and West North-Central divisions

- Illinois
- Indiana
- Iowa
- Kansas
- Michigan
- Minnesota
- Missouri
- Nebraska
- North Dakota
- Ohio
- South Dakota
- Wisconsin

South: South Atlantic, East and West South-Central divisions

- Alabama
- Arkansas
- Delaware
- District of Columbia
- Florida
- Georgia
- Kentucky
- Louisiana
- Maryland
- Mississippi
- North Carolina
- Oklahoma
- South Carolina
- Tennessee
- Texas
- Virginia
- West Virginia

West: Mountain and Pacific divisions

- Alaska
- Arizona
- California
- Colorado
- Hawaii
- Idaho
- Montana
- Nevada
- New Mexico
- Oregon
- Utah
- Washington
- Wyoming

Chapter I

National Estimates of Nursing Personnel by Field of Employment and Educational Preparation

This chapter presents national estimates of the nurse supply by field of employment and by educational preparation. The estimates are, for the most part, those prepared by the Interagency Conference on Nursing Statistics (ICONS), an informal association of statisticians from a variety of organizations directly concerned with compiling and analyzing statistics on nursing. The membership presently consists of representatives from the American Nurses' Association (ANA); the National League for Nursing (NLN); the American Hospital Association (AHA); The National Council of State Boards of Nursing (NCSBN); and the Public Health Service, DHHS. PHS membership includes personnel from the Bureau of Health Professions, HRA, and from the National Center for Health Statistics. Other organizations and governmental agencies are invited to send representatives to special meetings of the Conference as the agenda warrants.

The initiation of ICONS arose out of a meeting, held in 1953, of statisticians from the American Nurses' Association and the Division of Nursing Resources of the Public Health Service to discuss ways of estimating the country's registered nurse supply. In 1954 and subsequent years the core group of ICONS met to review statistical methodologies and available source data for the preparation of joint estimates of nurse supply. In 1957 the group adopted the permanent title, Interagency Conference on Nursing Statistics, and voted to continue meeting informally as a working conference rather than as a formal organization.

The ICONS annual meetings provided a mechanism for the preparation of national estimates of nurse supply and a forum for discussions of completed and needed studies. In addition, the meetings provided a coordination mechanism for preparers and users of nursing data.

ICONS does not, in its own name, conduct surveys. However, its functions and activities relate to many aspects of nursing data. It has succeeded in providing mutually beneficial assistance on development of instruments for collecting statistical information; the refinement of statistical methodology; the promotion of joint collection of data among the members; and the stimulation of needed studies.

ICONS members have also selected and abstracted reports of studies which contain data on nurses, nursing students, or the system within which nurses practice that are conducted and/or funded by the core group. Over the years, four such publications which highlight and describe major studies and surveys relevant to nursing manpower have been compiled and/or supported by ICONS.[1] [2] [3] [4]

In 1977, a revision and reorganization of the functions and membership of ICONS was brought on by the reorganization of the Bureau of Health Professions. In the reorganization, the prime responsibility for developing estimates of nurse supply as well as the personnel responsible for this were shifted from the Division of Nursing to the Division of Health Professions Analysis. The shift caused a change in the composition of the membership and scope of functions of ICONS.

Initially, ICONS developed only biennial national estimates of registered nurses in active practice in the various fields of nursing. The biennial estimates compiled by the group from 1954 to 1966 (table 1) are based largely on counts made by the employers of nurses, in contrast to the self-enumeration questionnaire method of the Census and the inventories, which are discussed in chapter II.

In 1967, however, it became evident that yearly supply estimates were needed to assist nursing planners in preparing budget requests, in maintaining current data, and in updating projections of need and supply. Members of the core group then agreed to make annual estimates, using the simple technique of subtracting net attrition from, and adding new graduates to, the previous year's supply.

The annual net attrition rate from the nurse supply and the number of graduates from basic nursing programs during the interim years were computed using a formula developed by the National League for Nursing.[5] The periodic inventories of the American Nurses' Association provided the supply estimates for the formula, and the National League for Nursing's annual statistical reports of data from the schools of nursing provided the numbers of graduates.

The limitation of this methodology, where current net attrition is necessarily based on past performance, became evident when, in 1973, ICONS reexamined its estimates in the light of new data, particularly data from the 1972 ANA inventory of registered nurses. The previous annual net attrition rate from the supply, computed for the period between the 1962 and 1966 inventories, was 3 percent. The rate computed for the period between the 1966 and 1972 inventories showed a decline to 2.1 percent. The decline implied that RN's had remained active in nursing for longer periods of time, and/or returned to active status in greater numbers. Accordingly, ICONS revised its January 1972 estimate of the supply of RN's from 748,000 to 780,000 and adjusted other annual estimates as well (table 1).

At its 1974 meeting, ICONS featured a progress report on the investigation and evaluation of estimating methods being done by Research Triangle Institute (RTI) under contract with the Division of Nursing.[6] The projection model developed by RTI is based on the distribution of the total licensed population of nurses by age and the flow of nurses into and out of the total licensed pool.[7] The supply of RN's is estimated by multiplying the population of licensed nurses by the proportion of licensed nurses that are actively employed. In RTI's model the total licensed population is estimated from a base year using newly licensed graduates from U.S. schools of nursing, foreign trained nurses that are newly licensed, nurses who have gotten their license reinstated, deaths, and the number of nurses who have allowed their license to expire. The model makes use of already existent data sources.

The methodology used to develop the national estimates from 1977 to 1980 is based on modifications of the RTI model. Modifications were made in the application of existent data in the model, in refinement of the initial data used, and in the concept of loss of licenses identified in the RTI study. Also, the necessity to develop estimates of the supply of registered nurses according to State of location, educational preparation, and in terms of full-time equivalents, required the development of additional techniques and the application of additional data, as well as modifications in the methodology. The adaptations in the model procedures were made by the Bureau of Health Professions. A description of the model is presented in chapter VI.

The number of registered nurses actively engaged in nursing in this country has increased steadily since 1960 (table 1). In 1980, the estimated number of registered nurses actively employed was 1,119,100, and the ratio of active registered nurses to population was 506 per 100,000. When the supply is viewed in terms of full-time equivalents (FTE) because of the large number of nurses who can work only parttime, the actual number is 945,700 nurses. When the increase in number is viewed in terms of service to patients expressed by ratios of FTE to population the ratio is 428 per 100,000. Traditionally, national supply counts of registered nurses are compiled as of January 1 of the given year. This results in a full year difference from statistics on other health occupations which use December 31 of the same given year.

The employment of registered nurses on a part-time basis rose sharply over the 1960 to 1980 period. In 1960, about 18 percent of the total supply was working parttime. By 1970 the proportion had risen to 28 percent. In 1980 part-time RN's represented some 31 percent of active RN's and these nurses are an integral part of the staffing in most fields of nursing employment.

Estimates of the distribution of nurse supply were made only by ICONS through 1974; therefore, data are presented for 1977 from the 1977 National Sample Survey of Registered Nurses (table 2). The sample survey is a landmark study initiated in 1976 by the Bureau of Health Professions under contract to the American Nurses' Association. The study collected information on the educational backround of registered nurses; on the employment status and activity status of registered nurses; on functions and activities which registered nurses perform; on personal and family characteristics of registered nurses; and information on the licensure status of registered nurses. This study is currently being updated and the results from it should be available toward the end of 1981.

Hospitals, nursing homes, and related institutions have remained the predominant employers of registered nurses. Since 1962, two out of every three registered nurses have been employed in these fields. While the proportions of registered nurses employed in all fields have decreased or increased slightly between each estimation period, the proportion of nurses who were self employed (private duty) or working in doctors' offices and other fields has shown a continual downward trend over the period (table 2).

Prior to 1952 accurate information about the educational preparation of nurses was available only in the fields of public health, nursing education, and industry. The first composite estimate of total numbers in all fields who hold college degrees was published in January 1954 by Eugene Levine.[8] This estimate was derived by pooling all available data on educational preparation from published and unpublished reports in different fields of nursing from various State surveys of nursing needs and resources (table 5). Levine's second estimate, based on the 1956 total of 430,000 registered nurses, showed only slight change over the 1952 figure (table 6). From 1960 through 1976, the Division of Nursing continued to develop estimates of the distribution of the total active nurse supply by educational preparation based upon the ICONS estimates (tables 7-10). To derive their estimates by educational preparation they combined precise figures from the biennial public health nursing counts [9] and from the nurse-faculty census reports [10] with estimates from other fields based on reports of nurse traineeship, State surveys, and special studies. The figures were then aggregated by field of employment and checked for consistency against the total number of degrees in nursing awarded by colleges and universities.

Educational preparation of registered nurses employed for public health work by State has been included in the public health nursing census reports since 1940.[11] Prior to 1966, however, only a few States collected such information about nurses employed in other fields. In that year a question on educational preparation was made part of the ANA inventory data requested from applicants for licenses in all the States, and total responses from employed registered nurses are tabulated in the inventory reports.[12 13]

The 1977 through 1980 estimates (table 4) of the distribution of registered nurses by highest educational preparation were developed by the Division of Health Professions Analysis (BHPr), HRA. The basic methodology used to develop the estimates by educational preparation is the same as that used to estimate the active nurses supply and is described earlier in this chapter. No attempt has been made to revise the Division of Nursing estimates using this newer methodology.

Increasing numbers of registered nurses have continued their formal education beyond their initial preparation. In 1952, an estimated 8.2 percent of RN's had achieved a baccalaureate or higher academic degree. In 1970, the proportion holding baccalaureate and higher degrees was 14.9 percent. By 1980 this proportion is estimated to have increased to 25.5 percent. An estimated 53,200 RN's employed in 1980 have also completed their masters or doctoral preparation (table 4).

Estimates of the supply of licensed practical nurses by field of employment, as well as estimates of the supply of nursing aides, orderlies, and attendants, were made only through 1972 (table 3). The Division of Health Professions Analysis is currently in the process of developing estimates of the LPN supply.

No estimates are being made of the anticipated supply of nursing aides, orderlies, and attendants because, unlike nurses, these individuals are mostly trained on the job and are unlicensed; therefore, the supply would come from the general labor market.

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Table 1-Estimates of registered nurses employed full time and part time in the United States, and rates per 100,000 population: January of selected years 1954-80

Year	Population estimates (thousands)	Total Nurses		Full time Nurses		Part time nurses		Full-time equivalent nurses[1]	
		Estimated Number	Rate per 100,000 pop.	Estimated Number	Rate per 100,000 pop.	Estimated Number	Rate per 100,000 pop.	Estimated Number	Rate per 100,000 pop.
48 States and District of Columbia									
1954........	159,825	401,600	251	[2]	...	[2]	...	[2]	...
1956........	165,931	430,000	259	388,000	234	42,000	25	409,000	246
1958........	171,922	460,000	268	383,800	223	76,200	44	421,900	245
50 States and District of Columbia									
1960........	178,729	504,000	282	413,300	231	90,700	51	458,650	257
1962........	184,508	550,000	298	432,810	235	117,190	64	491,405	266
1964........	189,973	582,000	306	450,050	237	131,950	69	516,025	272
1966........	194,649	621,000	319	466,000	239	155,000	80	543,500	279
1967[3]......	196,596	643,000	327	476,000	242	167,000	85	559,500	285
1968[3]......	198,578	667,000	336	489,000	246	178,000	90	578,000	291
1969[3]......	200,498	694,000	346	503,000	251	191,000	95	598,500	298
1970[3]......	202,717	722,000	356	519,000	256	203,000	100	620,500	306
1971........	205,152	750,000	366	534,000	260	216,000	105	642,000	313
1972........	207,397	780,000	376	548,000	264	232,000	112	664,000	320
1973........	209,123	815,000	390	578,000	276	237,000	113	696,500	333
1974........	210,680	857,000	407	608,000	289	249,000	118	732,500	348
1975........	212,302	906,000	427	643,000	303	263,000	124	774,500	365
1976........	214,047	961,000	449	682,000	319	279,000	130	821,500	384
1977........	215,585	981,500	455	675,100	313	306,400	142	828,300	384
1978........	217,391	1,028,400	473	708,200	326	320,200	147	868,300	399
1979........	219,213	1,074,500	490	740,500	338	334,000	152	907,500	414
1980........	221,227	1,119,100	506	772,300	349	346,800	157	945,700	428

[1] Numbers working full time plus one-half of the numbers working part time.
[2] Not estimated.
[3] Revised estimates of RN's.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing, Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 67.

1977 through 1980 estimates prepared by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis.

U.S. Department of Commerce, Bureau of the Census, Current Population Estimates. Washington, U.S. Government Printing Office. Series P-25, Nos. 600, 621, and 878.

Table 2-Estimates of registered nurses employed in the United States, by field of employment: January of selected years 1966-77[2]

Field of Employment	1966	1968[1]	1970[1]	1972	1974	1977
Total	621,000	667,000	722,000	780,000	857,000	978,234[3]
Hospitals, nursing homes, and related institutions	421,100	463,700	519,000	578,000	639,200	680,658
Public health and school	40,200	47,100	51,600	54,800	58,000	118,504
Occupational health (industry)	18,000	19,600	20,000	20,000	21,500	24,317
Nursing education	22,700	24,600	25,400	28,400	31,800	37,826
Private duty, office nurses, and other fields	119,000	112,000	106,000	98,800	106,500	116,682
			Percent Distribution			
Total	100.0	100.0	100.0	100.0	100.0	100.0
Hospitals, nursing homes and related institutions	67.8	69.5	71.9	74.1	74.6	69.6
Public health and school	6.5	7.1	7.1	7.0	6.8	12.1
Occupational health (industry)	2.9	2.9	2.8	2.6	2.5	2.5
Nursing education	3.6	3.7	3.5	3.6	3.7	3.9
Private duty, office nurses, and other fields	19.2	16.8	14.7	12.7	12.4	11.9

[1] Revised estimates

[2] 1977 estimates are as of September and not comparable to earlier data.

[3] Includes 247 nurses for whom field of employment was not reported.

SOURCES: U.S. Department of Health, Education and Welfare, Public Health Service, Division of Nursing, Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 67.

Interagency Conference on Nursing Statistics, 1974 and 1976.

Roth, Aleda et al., 1977 National Sample Survey of Registered Nurses, National Technical Information Service, Springfield, Va. 1979.

Table 3-Distribution of licensed practical nurses, and nursing aides, orderlies, and attendants, by field of employment [1] 1970-72

Field of employment	Licensed practical nurses			
	1970		1972	
	Number	Percent	Number	Percent
Total	370,000	100.0	401,000	100.0
Hospitals	237,000	64.1	248,500	62.0
Nursing homes	60,000	16.2	76,000	19.0
Public health	3,000	0.8	3,000	0.7
Other fields	70,000	18.9	73,500	18.3
	Nursing aides, orderlies, and attendants			
Total	830,000	100.0	900,000	100.0
Hospitals	570,000	68.7	565,000	62.8
Nursing homes	243,000	29.3	312,000	34.7
Public health [2]	15,000	1.8	21,000	2.3
Other fields	2,000	0.2	2,000	0.2

[1] Projected from numbers by the American Hospital Association; the National Center for Health Statistics, Master Facilities Index; and the Division of Nursing, Public Health Nursing Census.

[2] Home health aides.

SOURCE: U.S. Department of Health, Education, and Welfare, Division of Nursing, 1974.

Table 4-Highest academic credential of registered nurses practicing in the United States: selected years 1952-80[1]

Year as of January 1	Number					Percent			
	Total	Master's or doctoral degree	Baccalaureate	Nursing diploma	Associate degree[3]	Master's or doctoral	Bacca-laureate	Nursing diploma	Associate degree[2]
1952.........	374,600	3,800	27,050	343,750	...	1.0	7.2	91.8	...
1956.........	430,000	6,400	30,000	393,600	...	1.5	7.0	91.5	...
1960.........	504,000	8,500	37,500	458,000	...	1.7	7.4	90.9	...
1962.........	550,000	11,500	43,500	495,000	...	2.1	7.9	90.0	...
1964.........	582,000	13,300	52,100	516,600	...	2.3	9.0	88.7	...
1966.........	621,000	15,300	64,500	533,200	8,000	2.5	10.4	85.8	1.3
1967[3].......	643,000	16,100	68,200	548,700	10,000	2.5	10.6	85.3	1.6
1968[3].......	667,000	17,000	72,000	566,000	12,000	2.5	10.8	84.9	1.8
1969[3].......	694,000	18,700	78,400	579,900	17,000	2.7	11.3	83.6	2.4
1970[3].......	722,000	20,300	87,000	593,400	21,400	2.8	12.0	82.2	3.0
1971.........	750,000	22,500	96,600	603,100	27,800	3.0	12.9	80.4	3.7
1972.........	780,000	24,200	107,200	613,400	35,200	3.1	13.7	78.7	4.5
1973.........	815,000	26,100	118,200	627,500	43,200	3.2	14.5	77.0	5.3
1974.........	857,000	28,000	130,400	647,000	51,600	3.3	15.2	75.5	6.0
1975.........	906,000	30,500	144,000	731,500	...	3.4	15.9	80.7	...
1976.........	961,000	33,000	163,000	765,000	...	3.4	17.0	79.6	...
1977.........	981,500	42,000	178,900	760,600	...	4.3	18.2	77.5	...
1978.........	1,028,400	45,200	197,500	785,700	...	4.4	19.2	76.4	...
1979.........	1,074,500	49,100	214,600	810,800	...	4.6	20.0	75.4	...
1980.........	1,119,100	53,200	232,100	833,800	...	4.8	20.7	74.5	...

[1] Beginning in 1960, estimates include Alaska and Hawaii.

[2] Prior to 1966 and beginning in 1975, RNs with associate degrees as their highest educational preparation are included with nursing diplomas.

[3] Estimates revised 1974.

SOURCES: U.S. Department of Health, Education, and Welfare. Public Health Service, Division of Nursing, Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 69.

Educational preparation estimated by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis.

Table 5-Estimated number of registered nurses practicing in the various fields, by highest academic credential: 1952 (includes 48 States and the District of Columbia)

Field of practice	Number				Percent		
	Total	Master's or doctoral degree	Baccalaureate	Nursing diploma or associate degree	Master's or doctoral degree	Baccalaureate	Nursing diploma or associate degree
Total	374,584	3,806	27,039	343,749	1.0	7.2	91.8
Hospitals and related institutions	210,087	2,007	14,334	193,746	1.0	6.8	92.2
Director and assistant	9,844	1,302	3,544	4,998	13.2	36.0	50.8
Supervisor and assistant	22,781	323	4,148	18,310	1.4	18.2	80.4
Head Nurse	34,740	125	2,175	32,440	0.4	6.3	93.3
Staff, anesthetist, and other	142,722	257	4,467	137,998	0.2	3.1	96.7
Public health and school	24,922	497	5,344	19,081	2.0	21.4	76.6
Administrators and supervisors	3,152	214	1,708	1,230	6.8	54.2	39.0
Staff	21,770	283	3,636	17,851	1.3	16.7	82.0
Nursing education	10,406	1,140	4,559	4,707	11.0	43.8	45.2
Occupational health	11,000	20	344	10,636	0.2	3.1	96.7
Doctors' offices, private duty and other	118,169	142	2,458	115,569	0.1	2.1	97.8

SOURCE: Levine, Eugene. "How Many Nurses Have College Degrees?'", Nursing Outlook 2:1, Jan. 1954, p. 23.

Table 6-Estimated number of registered nurses practicing in the various fields, by highest academic credential: 1956 (includes 48 States and the District of Columbia)

Field of practice	Number				Percent		
	Total	Master's or doctoral degree	Baccalaureate	Nursing diploma or associate degree	Master's or doctoral degree	Baccalaureate	Nursing diploma or associate degree
Total	430,000	6,400	30,000	393,600	1.5	7.0	91.5
Hospitals and related institutions	265,800	2,200	14,700	248,900	0.8	5.5	93.7
Director and assistant	11,400	1,300	2,600	7,500	11.4	22.8	65.8
Supervisor and assistant	23,900	600	3,100	20,200	2.5	13.0	84.5
Head Nurse	44,000	200	2,800	41,000	0.4	6.4	93.2
Staff, anesthetist, and other	186,500	100	6,200	180,200	0.1	3.3	96.6
Public health and school	27,200	1,300	6,900	19,000	4.8	25.4	69.8
Administrators and supervisors	3,100	800	1,400	900	25.8	45.2	29.0
Staff	24,100	500	5,500	18,100	2.1	22.8	75.1
Nursing education	10,400	2,700	5,300	2,400	26.0	51.0	23.0
Occupational health	17,000	100	800	16,100	0.6	4.7	94.7
Doctors' offices, private duty and other	109,600	100	2,300	107,200	0.1	2.1	97.8

SOURCE: Levine, Eugene. "How Many Nurses Have College Degrees?'", Nursing Outlook 6:12, Dec. 1958.

Table 7-Estimated number of registered nurses practicing in the various fields, by highest academic credential: 1960 (includes 50 States and the District of Columbia)

Field of practice	Number				Percent		
	Total	Master's or doctoral degree	Baccalaureate	Nursing diploma or associate degree	Master's or doctoral degree	Baccalaureate	Nursing diploma or associate degree
Total	504,000	8,500	37,500	458,000	1.7	7.4	90.0
Hospitals and related institutions	325,000	2,800	18,300	303,900	0.9	5.6	93.5
Director and assistant	14,000	1,600	3,200	9,200	11.4	22.9	65.7
Supervisor and assistant	33,500	800	4,400	28,300	2.4	13.1	84.5
Head Nurse	52,300	200	3,300	48,800	0.4	6.3	93.3
Staff, anesthetist, and other	225,200	200	7,400	217,600	0.1	3.3	96.6
Public health and school	32,400	1,850	8,900	21,650	5.7	27.5	66.8
Administrators and supervisors	3,600	1,050	1,500	1,050	29.2	41.6	29.2
Staff	28,800	800	7,400	20,600	2.8	25.7	71.5
Nursing education	14,200	3,700	7,200	3,300	26.1	50.7	23.2
Occupational health	18,500	50	700	17,750	0.3	3.8	95.9
Doctors' offices, private duty and other	113,900	100	2,400	111,400	0.1	2.1	97.8

SOURCE: U.S. Public Health Service, Division of Nursing, 1960.

Table 8-Estimated number of registered nurses practicing in the various fields, by highest academic credential: 1964 (includes 50 States and the District of Columbia)

Field of practice	Number				Percent		
	Total	Master's or doctoral degree	Baccalaureate	Nursing diploma or associate degree	Master's or doctoral degree	Baccalaureate	Nursing diploma or associate degree
Total	582,000	13,300	52,100	516,600	2.3	9.0	88.7
Hospitals and related institutions	390,400	3,700	27,500	359,200	1.0	7.0	92.0
Director and assistant	19,100	2,200	5,500	11,400	11.5	28.8	59.7
Supervisor and assistant	35,200	900	6,000	28,300	2.6	17.0	80.4
Head Nurse	63,300	300	5,000	58,000	0.5	7.9	91.6
Staff, anesthetist, and other	272,800	300	11,000	261,500	0.1	4.0	95.9
Public health and school	37,200	2,300	11,800	23,100	6.2	31.7	62.1
Administrators and supervisors	4,100	1,300	1,800	1,000	31.7	43.9	24.4
Staff	33,100	1,000	10,000	22,100	3.0	30.2	66.8
Nursing education	20,700	6,900	8,700	5,100	33.3	42.0	24.7
Professional school	17,600	6,500	7,400	3,700	36.9	42.1	21.0
Practical nursing school	3,100	400	1,300	1,400	12.9	41.9	45.2
Occupational health	18,700	100	1,100	17,500	0.5	5.9	93.6
Doctors' offices, private duty and other	115,000	300	3,000	111,700	0.3	2.6	97.1

SOURCE: Levine, Eugene, and Hudson, Helen H. "How Many Nurses Have College Degrees?'", Nursing Outlook 13:10, Oct. 1965.

Table 9-Estimated number of registered nurses practicing in the various fields, by highest academic credential: 1968 (includes 50 States and the District of Columbia)

Field of employment	Number					Percent			
	Total	Master's or doctoral degree	Bacca-laureate	Nursing diploma	Associate degree	Master's or doctoral degree	Bacca-laureate	Nursing diploma	Associate degree
Total........................	667,000	17,000[1]	72,000	566,000	12,000	2.5	10.8	84.9	1.8
Hospitals, nursing homes and related institutions...	463,700	4,400	41,200	407,700	10,400	1.0	8.9	87.9	2.2
Public health and school.......	47,100	2,800	15,700	28,200	400	6.0	33.3	59.9	0.8
Nursing education[2]..........	24,600	9,300	9,800	5,400	100	37.8	39.8	22.0	0.4
Occupational health............	19,600	200	1,300	17,700	400	1.0	6.7	90.3	2.0
Private duty, doctors'offices, and other fields...........	112,000	300	4,000	107,000	700	0.3	3.6	95.5	0.6

[1] Includes an estimated 600 registered nurses with doctoral degrees.
[2] Excludes instructors in cooperating agencies who are counted with RNs in the hospital field.

SOURCES: Total number of nurses and field of employment estimated by the Interagency Conference on Nursing Statistics, April 1968 and June 1969. Estimates revised 1974.

Educational preparation estimated by U.S. Department of Health, Education, and Welfare, Division of Nursing, 1969 and 1974.

Table 10-Estimated number of registered nurses practicing in the various fields, by highest academic credential: 1972 (includes 50 States and the District of Columbia)

Field of employment	Number					Percent			
	Total	Master's or doctoral degree	Bacca-laureate	Nursing diploma	Associate degree	Master's or doctoral degree	Bacca-laureate	Nursing diploma	Associate degree
Total........................	780,000	24,200[1]	107,200	613,400	35,200	3.1	13.7	78.7	4.5
Hospitals, nursing homes and related institutions...	578,000	7,600	69,900	469,900	30,600	1.3	12.0	81.3	5.4
Public health and school.......	54,800	3,900	19,300	30,800	800	7.1	35.2	56.2	1.5
Nursing education..............	28,400	12,100	11,100	4,900	300	42.6	39.1	17.2	1.1
Occupational health............	20,000	200	1,400	17,900	500	1.0	7.0	89.5	2.5
Private duty, doctors'offices, and other fields...........	98,800	400	5,500	89,900	3,000	0.4	5.6	91.0	3.0

[1] Includes an estimated 800 registered nurses with doctoral degrees.

SOURCES: Interagency Conference on Nursing Statistics. Estimates by field of employment revised 1974.

Estimates of educational preparation by U.S. Department of Health, Education, and Welfare, Division of Nursing, 1974

Table 11-Estimated number of employed registered nurses by field of employment and highest nursing-related educational preparation: September 1977

Field of employment	Total	Highest nursing-related educational preparation			
		Less than baccalaureate	Baccalaureate	Masters degree and above	Not Reported
Total..................	978,234	752,571	180,467	43,258	1,938
Hospital.................	601,011	479,919	107,599	12,685	808
Nursing homes...........	79,647	69,137	8,999	1,451	60
Office nurses...........	69,263	61,410	6,857	519	477
Public health...........	77,139	50,395	21,861	4,821	62
Private duty............	28,563	25,741	2,417	269	136
School nurses...........	41,365	24,381	14,546	2,422	16
School of nursing.......	37,826	7,304	11,733	18,789	--
Industrial..............	24,317	21,877	2,140	231	69
Other...................	18,856	12,199	4,274	2,072	311
Not reported............	247	210	37	--	--

Note: Because of rounding, sums of estimated numbers may not add to totals.

SOURCE: Roth, Aleda, et al., 1977 National Sample Survey of Registered Nurses, National Technical Information Service, Springfield, Va. 1979.

Chapter II

Geographic Distribution of Nursing Personnel

This chapter presents a discussion of data from two major sources of statistics on nurse supply in the United States by State and census region: Bureau of the Census decennial enumerations (tables 12-15), and the periodic inventories of registered nurses compiled by the American Nurses' Association from questionnaires distributed by the State boards of nursing (tables 16-22).

Trend data on the numbers of new licenses issued by the various States as reported by the State boards of nursing, which are the official licensing agencies for nurses are also included (tables 23 and 24).

Census Reports

Bureau of the Census statistics were collected during the decennial censuses by self-enumeration and/or direct interviewing, and the data provided by the respondents are accepted as correct. In this edition of the Source Book, as in past editions, adjustments to census figures on the supply of nurses have been made where they appear warranted. In the census data prior to 1950, the number of professional nurses for each State was estimated by subtracting from the number of nurses reported by the Bureau of the Census the number of student nurses known from other sources to have been enrolled in the schools of each State. In 1950, the Bureau of the Census counted the two groups separately, but the age distribution of nurses suggested that many students were counted as professional nurses. For this reason adjustments were also made to the 1950 data.[1]

The 1960 figures were examined thoroughly and compared with other available data on nurse supply by the members of the Interagency Conference on Nursing Statistics (ICONS). Their opinion was that the census count of persons employed as professional nurses in 1960 (582,379) was high, and the number of nursing students (57,340) exceptionally low in comparison with other manpower data concerned with nurses. Part of the discrepancy may be due to the fact that no distinction is made between registered nurses and graduates of nursing programs who are not licensed on the census form. Moreover, some difference may have resulted from varied interpretations of definitions for nursing occupations; e.g., some male attendants in hospitals, practical nurses, and other nursing-related personnel may have considered themselves professional nurses, or respondents may not have been sufficiently specific for precise classification.

The undercount of student nurses indicated another possible source of reporting error in that students taking clinical training or field practice may have called themselves professional nurses, or may not have been specific enough in answering the question on occupation. Therefore, for the 1960 column in table 12, adjustments were made, based principally on known student enrollments in registered nurse programs for the academic year in which the census of population was taken. While the results of the adjustments in census figures are only approximations of the active supply of registered nurses in those years, they appear reasonable and are consistent with data obtained through the periodic ANA inventories. No adjustments have been made in any census data on practical nurses (table 13).

The 1970 census figures on registered nurses present problems similar to those of the 1960 census. In addition, some changes were made in definitions of nursing personnel within the occupational system in 1970 and nursing students were counted with other health trainees. The published census total of nearly 830,000 RN's [2] in 1970 does not include an undetermined number classified as "health administrators" and "teachers." The figure shown is 15 percent higher than the ICONS estimate of total RN supply for 1970, which includes registered nurses in all fields of nursing practice. If the exclusions from the census total are added to the 830,000 the difference between the two estimates is as great as 20 to 25 percent.

Because of the magnitude of this discrepancy, the Division of Nursing in 1973 requested the Bureau of the Census to conduct a postcensus study of registered nurses similar to the follow up of other occupational groups, to determine the proportions of the originally-reported total who were properly classified as registered nurses (table 15). Some of the highlights of the findings of the Bureau of the Census were as follows:

1. Of the 841,000 registered nurses estimated in the labor force in the 1970 Decennial Census, an estimated 655,000 were, in actual fact, individuals who had licenses to practice as registered nurses in April 1970, the date of the 1970 Census.

2. Among the estimated 186,000 included in the Decennial Census as registered nurses but who did not meet the definition of holding a license to practice as a registered nurse in April 1970, about 4 percent were graduates of educational programs for registered nurses (but not yet licensed) and another 4 percent were apparently students in registered nurse basic educational programs. 52 percent were graduates of other types of health occupational programs, predominantly practical nursing, and 39 percent had non-health-related occupational educational backgrounds.

3. Among those individuals whose highest degree was estimated in this special Bureau of the Census study as a diploma from a hospital school of nursing, 36.7 percent were classified in the census as having no more than 4 years of high school education.

It should be pointed out that the study did not attempt to determine what would be the true estimate of registered nurses in the census because of differences in definition between the census and what the Division of Nursing consider registered nurses and because some individuals who were really registered nurses may have been misclassified in other occupational categories of the census.

The study did show, however, that the number of registered nurses in the census is undoubtedly overstated. Some of the effects of the findings on the distribution of registered nurses in the census appears in chapter III.

No adjustments of the census data reported for 1970 concerning practical nurses and aides, orderlies, and attendants have been made. However, several checks on the report for practical nurses are available: (1) the 1967 and 1974 Inventories of Licensed Practical Nurses, (2) the employer counts of LPN's in the hospital and nursing home fields, and (3) the graduates of State-approved schools of nursing--LPN/LVN--from 1960 to 1969. The 1967 Inventory enumerated nearly 270,000 licensed practical nurses active at the time;[3] the 1974 Inventory reported a total of over 400,000 as being active;[4] LPN's in the hospital and nursing home fields in 1970 totaled nearly 290,000;[5] and new graduates of practical nursing schools totaled nearly 237,000 for the 10-year period between census dates (1960-1970)[6]. The census total for practical nurses in the labor force in 1970 was 237,133 (tables 13 and 14)--obviously an undercount in view of the statistical evidence noted above. The special post enumeration study of RN's mentioned above shows that some LPN's were counted in that group of RN's.

The number of aides, orderlies, and attendants employed in AHA hospitals in 1970 was 559,000; in nursing homes, about 250,000[7]. These fields alone total more than the 718,000 aides, orderlies, and attendants reported in the 1970 census (table 14).

Inventory Reports

The most comprehensive sources of national data on nurses are the inventories of registered nurses and licensed practical nurses compiled by the American Nurses' Association. Since 1949 there have been seven inventories of registered nurses and two inventories of licensed practical nurses. The U.S. Public Health Service with the ANA jointly funded the 1962 and all subsequent inventories. The most recent compilations are the 1977 Inventory of Registered Nurses[8] and the 1974 Inventory of Licensed Practical Nurses.[9]

These nationwide manpower studies were accomplished through the periodic license-renewal mechanism and were based on a standard set of questions prepared by the American Nurses' Association. In most States, the questions were part of the application form distributed by the State licensing agencies and completed by the nurse for her license, either new or renewal. In other States, the questions were printed separately from the licensing application form. The completed application forms or questionnaires were then sent by the State boards of nursing to the ANA for processing. Where forms could not be sent out of the State, special arrangements were made to have the data coded and keypunched within the State, using the ANA standard specifications.

It should be mentioned that the 1977 Inventory was conducted in a somewhat different fashion from the previous inventories. In this particular inventory, data for 19 States was provided to the ANA through health manpower contracts from the National Center for Health Statistics' Cooperative Health Statistics System. These 19 State CHSS contractors collected, coded and keypunched the data before shipping it to the ANA. In the remaining States data was collected in the usual manner.

Data collection for the inventory is chronologically staggered according to the licensing periods--annual or biennial--and the cut-off dates in the various States. Since many nurses maintain licenses in more than one State, the inventory provides for elimination of duplicates, so that the total count is of individuals, as contrasted with the number of licenses issued (tables 23 and 24). Employed nurses are counted in the State and county of their employment; nurses not employed in nursing are counted in the State and county where they live.

A major problem in such a large-scale survey is that of nonresponse, either to entire questionnaires when these are separate from the license application form, or to specific questions for the inventory. Table 16 shows only the registered nurses who explicitly stated that they were either actively employed or inactive as nurses at the time of the inventories in 1962, 1966, 1972, and 1977. This table excludes about 4 percent of those who registered in 1962, 3 percent of the 1966 and 1972 respective totals, and 7 percent of the 1977 total, because there was no indication of whether the nurses were or were not employed in nursing. Table 18 gives the actual count of these nonresponses in 1972 and 1977 with the grand totals of nurses registered and those active and not active at the time of registration. Comparable data to that above for practical nurses in 1967 and 1974 is presented in table 21. Tables 17 and 20 present the adjusted number of nurses (RN and LPN) employed in each State after those not responding to the question were distributed to active and inactive status in the same proportion as those who answered the question. The ratios of nurses per 100,000 population have been computed on the basis of individual nurses regardless of whether their employment was on a full time or part time basis. Table 19 presents the 1977 RN data by employment and activity status together with the resident population of the States as of July 1, 1977. In this table the States have been arranged into the 10 regions of the Department of Health and Human Services.

The total number of registered nurses, active and inactive, and the ratios per 100,000 population increased markedly between the 1966 and 1977 inventory reference dates for the United States as a whole and for each census region. The number of both active and inactive nurses also increased in each State. The number of inactive nurses indicated for each State are those who maintain a license to practice in some State, although it may not be the State in which they are located. Comparable trend data on licensed practical nurses for 1967 and 1974 show that the number of licensed practical nurses, active and inactive, also increased notably within that period (table 21).

Data from both the RN and LPN inventories indicate that nurses are remaining active in nursing for longer periods of time and/or are returning from inactive to active status in greater numbers than ever before. Since many nurses chose to work or return to the labor force on a part-time basis, the full-time equivalent distribution of nurses and ratios per 100,000 population must be considered in any examinations of nurse supply. As shown in table 22, great variations in FTE nurse population ratios are evident among the States for both registered and licensed practical nurses. Even greater variations are evident among counties within States, and among standard metropolitan statistical areas throughout the nation.[10,11]

New Licenses

One indicator of the number of nurses added to the active nurse supply is the number of new licenses issued. Tables 23 and 24 show the number or registered and practical nurses licensed for the first time in the United States in selected years. Between 1970 and 1979, new RN licenses in the country increased 57.4 percent and new PN licenses increased 8.8 percent. The vast majority of the increase in both types of licenses occurred in the West. Most new licenses are issued by examination on the basis of graduation from an approved school of nursing, although as many as 6 percent of those issued to practical nurses have been by waiver of some requirement, usually that pertaining to graduation from a State-approved school of practical nursing. In a number of instances the waivered nurses are required to take the State's licensing examination.

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Table 12-Numbers of active[1] professional nurses, adjusted from census enumerations, by region and State: census years 1910-1960

Region and State	1910	1920	1930	1940	1950	1960
United States	50,476	103,879	214,292	284,159	374,584	525,374
Northeast	19,346	39,542	82,288	109,268	126,573	155,821
North Central	14,081	29,660	61,527	77,504	103,440	139,572
South	9,963	19,886	39,364	55,867	82,289	134,578
West	7,086	14,791	31,113	41,520	62,282	95,403
Alabama	523	1,023	1,834	2,392	4,053	6,791
Alaska	--	73	--	--	406	612
Arizona	195	406	943	1,294	2,201	4,219
Arkansas	268	463	1,172	1,572	1,866	3,278
California	3,287	7,261	19,704	25,795	37,040	57,464
Colorado	833	1,470	1,920	2,898	4,161	6,128
Connecticut	1,004	1,976	4,873	6,168	8,155	10,292
Delaware	137	137	330	592	982	1,550
District of Columbia	457	1,458	1,918	3,225	3,318	2,928
Florida	323	877	2,301	4,259	7,208	15,249
Georgia	1,008	1,750	2,826	3,458	5,016	8,322
Hawaii	--	233	697	--	1,267	1,677
Idaho	224	490	563	767	1,286	1,834
Illinois	2,303	7,142	13,920	17,381	21,872	28,497
Indiana	1,071	1,862	3,756	5,173	7,727	11,680
Iowa	890	2,125	3,594	3,751	5,770	7,782
Kansas	849	1,199	2,262	2,577	4,170	6,612
Kentucky	665	1,239	1,879	2,946	3,818	5,857
Louisiana	498	919	1,891	3,165	4,639	6,503
Maine	500	939	1,602	1,961	2,755	3,203
Maryland	1,051	1,937	3,748	4,870	6,200	9,861
Massachusetts	3,078	6,025	13,213	17,478	19,549	21,025
Michigan	1,041	2,896	8,727	11,515	15,583	21,310
Minnesota	1,360	2,679	5,286	7,059	8,6[illegible]1	11,178
Mississippi	266	540	1,181	1,454	2,247	4,445
Missouri	1,575	2,662	4,896	6,282	7,834	10,508
Montana	309	682	904	1,111	1,534	2,161
Nebraska	580	1,097	2,021	1,967	2,[illegible]8	3,881
Nevada	83	103	201	291	50[illegible]	838
New Hampshire	174	559	1,139	1,507	2,017	2,691
New Jersey	1,809	3,208	8,418	11,407	13,766	19,433
New Mexico	192	298	481	760	1,268	2,494
New York	9,087	17,433	33,979	47,437	49,241	59,384
North Carolina	645	1,431	3,329	4,716	6,806	9,894
North Dakota	358	443	854	758	1,077	1,269
Ohio	2,580	4,776	11,143	14,010	18,853	25,238
Oklahoma	426	921	2,081	2,531	3,685	5,878
Oregon	674	1,086	2,144	2,871	4,353	5,629
Pennsylvania	3,034	8,283	16,838	20,645	27,537	35,933
Rhode Island	370	626	1,487	1,784	2,178	2,419
South Carolina	287	1,052	1,601	2,225	3,193	5,405
South Dakota	246	416	831	836	1,305	1,330
Tennessee	742	1,233	2,529	3,248	5,129	7,632
Texas	1,188	2,439	5,853	8,832	14,109	26,081
Utah	105	270	619	891	1,437	1,854
Vermont	290	493	739	881	1,375	1,441
Virginia	1,058	1,753	3,084	4,355	6,662	10,858
Washington	1,[illegible]13	2,625	3,306	4,369	7,817	9,585
West Virginia	421	714	1,807	2,027	3,358	4,046
Wisconsin	1,228	2,363	4,237	6,195	7,930	10,287
Wyoming	71	97	328	473	678	908

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[1] Data for 1910-1930 are for nurses who are gainfully employed; for 1940 they also include nurses who are seeking work; for 1950 and 1960, data include only civilian nurses actually employed at some time during the week preceding date of census enumeration.

[2] Alaska and Hawaii are not included in U. S. total or regional totals before 1960. Territories are not included in any totals. Adjustments of census data are explained in the text.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 13-Number of active practical nurses and nurse-population ratios
by region and State: census years 1950-1970

Region and State	Number			Rate per 100,000 population		
	1950	1960	1970	1950	1960	1970
United States	136,541	204,973	237,133	90	115	117
Northeast	34,909	51,592	60,836	88	115	124
North Central	36,001	57,539	66,354	81	111	117
South	43,522	61,275	71,810	92	113	114
West	22,109	34,567	38,133	109	123	110
Alabama	2,608	3,617	4,710	85	111	137
Alaska	57	118	198	44	52	66
Arizona	565	1,205	1,314	75	93	74
Arkansas	1,614	2,010	2,559	85	113	133
California	12,708	18,619	22,530	120	118	113
Colorado	1,271	2,603	2,652	96	148	120
Connecticut	1,774	2,800	3,370	88	110	111
Delaware	336	471	637	106	106	116
District of Columbia	1,280	1,749	1,567	160	229	207
Florida	3,124	4,046	7,489	113	102	110
Georgia	3,249	4,613	4,452	94	117	97
Hawaii	582	952	747	116	150	97
Idaho	524	1,107	919	89	152	129
Illinois	6,174	8,440	11,178	71	84	101
Indiana	2,942	3,896	4,137	75	84	80
Iowa	2,315	2,863	2,651	88	104	94
Kansas	1,825	2,527	2,007	96	116	89
Kentucky	2,296	2,775	3,137	78	91	97
Louisiana	2,564	3,521	3,650	96	108	100
Maine	847	1,548	1,044	93	160	105
Maryland	2,458	2,847	3,622	105	92	92
Massachusetts	4,483	11,339	10,904	96	220	192
Michigan	5,243	11,864	13,551	82	152	153
Minnesota	2,758	3,948	5,264	92	116	138
Mississippi	1,548	2,592	2,064	71	119	93
Missouri	3,895	5,862	5,032	98	136	108
Montana	437	742	761	74	110	110
Nebraska	1,188	1,895	1,405	90	134	95
Nevada	110	242	476	69	85	97
New Hampshire	581	922	860	109	152	117
New Jersey	4,012	4,870	6,415	83	80	89
New Mexico	359	770	750	53	81	74
New York	15,976	15,191	18,901	108	91	104
North Carolina	3,280	3,967	4,218	81	87	83
North Dakota	257	522	677	41	83	110
Ohio	6,380	11,615	15,076	80	120	142
Oklahoma	1,995	3,838	2,973	89	165	116
Oregon	1,820	2,656	2,171	120	150	104
Pennsylvania	6,187	13,125	17,375	59	116	147
Rhode Island	597	1,118	1,296	75	130	137
South Carolina	1,643	1,610	1,893	78	68	73
South Dakota	383	605	590	59	89	89
Tennessee	3,237	4,381	4,921	98	123	125
Texas	8,011	13,386	17,661	104	140	158
Utah	412	801	905	60	90	85
Vermont	452	679	671	120	174	151
Virginia	3,220	3,960	4,651	97	100	100
Washington	3,148	4,597	4,495	132	161	132
West Virginia	1,059	1,892	1,606	53	102	92
Wisconsin	2,641	3,502	4,786	77	89	108
Wyoming	116	245	215	40	74	65

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

U.S. Department of Commerce, Bureau of the Census. United States Census of Population, 1970. Detailed Characteristics. State Volumns. Washington, U.S. Government Printing Office, 1972.

Table 14-Employed registered nurses, licensed practical nurses, and nursing aides, orderlies, and attendants, by region and State, decennial census, 1970 1/

Region and State	Registered nurses	Practical nurses	Aides, orderlies, and attendants
United States	829,691	237,133	717,968
Northeast	242,994	60,836	169,052
North Central	222,461	66,354	240,969
South	216,600	71,810	203,142
West	147,636	38,133	104,805
Alabama	10,588	4,710	11,438
Alaska	940	198	420
Arizona	7,419	1,314	4,741
Arkansas	5,683	2,559	7,519
California	86,934	22,530	59,294
Colorado	10,643	2,652	8,136
Connecticut	17,222	3,370	10,904
Delaware	2,690	637	1,614
District of Columbia	3,246	1,567	3,178
Florida	25,501	7,489	21,592
Georgia	14,673	4,452	13,487
Hawaii	2,915	747	1,240
Idaho	2,481	919	1,844
Illinois	43,799	11,178	37,669
Indiana	18,387	4,137	21,085
Iowa	12,009	2,651	15,541
Kansas	9,205	2,007	13,205
Kentucky	8,843	3,137	10,371
Louisiana	10,947	3,650	12,239
Maine	5,082	1,044	3,883
Maryland	16,840	3,622	11,786
Massachusetts	37,000	10,904	22,702
Michigan	32,116	13,551	33,396
Minnesota	19,349	5,264	21,304
Mississippi	6,660	2,064	6,903
Missouri	17,439	5,032	20,687
Montana	2,877	761	2,962
Nebraska	6,454	1,405	8,643
Nevada	1,748	476	993
New Hampshire	4,500	860	2,655
New Jersey	30,997	6,615	18,197
New Mexico	3,320	750	2,685
New York	85,024	18,901	70,992
North Carolina	17,565	4,218	14,356
North Dakota	2,624	677	3,776
Ohio	40,987	15,076	35,285
Oklahoma	8,458	2,973	13,936
Oregon	8,317	2,171	8,711
Pennsylvania	55,973	17,375	34,339
Rhode Island	4,485	1,296	3,724
South Carolina	8,314	1,893	6,774
South Dakota	2,525	590	4,415
Tennessee	13,647	4,921	13,078
Texas	39,183	17,661	34,675
Utah	3,608	905	2,587
Vermont	2,711	671	1,656
Virginia	17,948	4,651	14,095
Washington	15,057	4,495	9,957
West Virginia	5,814	1,606	6,101
Wisconsin	17,567	4,786	25,963
Wyoming	1,377	215	1,235

1/ Census data on nursing personnel for 1970 are not comparable to reports of previous years. See text for discussion.

SOURCE: U.S. Department of Commerce, Bureau of the Census. United States Census of Population, 1970. Detailed Characteristics. State Volumes. Washington, U.S. Government Printing Office, 1972.

Table 15-Total experienced civilian labor force of registered nurses in the 1970 Census bybasic preparation for practice (in thousands)

Preparation	Total	
	Number	Percent
Total experienced civilian labor force in category "registered nurse" in 1970 Census	841[1]	---
Total with RN license in April 1970*	655[1]	100.0
Graduate of registered nurse program	653	99.6
By April 1970	650	99.2
After April 1970	3	.5
Not graduate of registered nurse program	2	.3
Total with no RN license in April 1970	186[1]	100.0
Graduate of registered nurse program	16	8.6
By April 1970	8	4.3
After April 1970	8	4.3
Not graduate of registered nurse program	169	90.9
Graduate of other health occupation program	96	51.6
Graduate of prac. or voc. school	64	34.4
Not graduate of other health occupation program	73	39.2

[1] 655,000 (77.9%) of the 841,000 individuals counted as "registered nurse(s) in the 1970 census were, in fact, licensed RNs. 186,000 (22.2%) of those 841,000 individuals did not hold an RN license.

NOTES: Items may not add to total due to independent rounding. Category with (*) most closely relates to appropriate member of "registered nurse" category.

SOURCE: Special post 1970 census study conducted by the Bureau of the Census for the Division of Nursing, BHM, HRA, DHEW. December 1974.

Table 16-Number of registered nurses, active and inactive, by region and State: selected years 1962-77

Region and State	Active registered nurses				Inactive registered nurses			
	1962	1966	1972	1977	1962	1966	1972	1977
United States	532,118	593,[illegible]94	778,470	958,308	282,819	286,511	316,611	323,483
Northeast	174,299	193,580	248,779	276,681	107,651	107,083	117,032	105,655
North Central	148,932	16[illegible],443	215,198	268,650	71,197	72.891	74,761	77,052
South	115,544	131,987	184,973	249,843	49,492	52,295	66,838	79,355
West	93,343	103,684	129,520	163,134	54,479	54,242	57,980	61,421
Alabama	5,047	5,685	7,753	10,599	1,873	2,237	2,361	2,500
Alaska	683	581	1,373	1,670	402	279	617	658
Arizona	4,896	5,775	7,418	12,825	2,172	2,360	3,405	4,978
Arkansas	2,194	2,569	3,757	5,714	993	1,064	1,216	1,928
California	52,151	57,537	68,118	80,372	34,175	34,266	33,733	32,078
Colorado	6,825	8,208	11,634	15,138	2,439	2,619	3,567	5,200
Connecticut	11,365	14,973	17,567	16,712	8,748	4,805	5,530	5,253
Delaware	1,775	2,043	2,886	3,454	1,178	1,170	1,424	1,408
District of Columbia	4,000	3,604	4,968	5,625	783	709	519	434
Florida	14,109	21,007	25,498	37,517	6,039	6,757	11,058	12,398
Georgia	7,816	6,851	12,353	16,674	3,431	3,111	4,836	5,157
Hawaii	1,974	2,193	3,074	3,190	590	704	988	958
Idaho	1,913	1,946	2,504	3,463	1,207	1,090	1,216	1,432
Illinois	28,890	33,331	44,223	49,626	18,827	18,024	15,726	14,422
Indiana	11,223	12,307	15,539	20,891	4,746	4,959	4,955	4,682
Iowa	8,555	9,956	11,925	15,083	6,389	4,996	5,810	4,402
Kansas	6,208	6,558	8,961	10,721	3,639	3,459	3,511	3,878
Kentucky	5,317	6,130	8,432	11,020	2,747	2,678	3,157	3,682
Louisiana	6,594	6,598	9,070	11,234	1,965	2,364	2,351	2,782
Maine	3,462	3,963	4,700	5,922	2,186	2,308	2,493	2,565
Maryland	7,779	9,840	14,596	18,246	4,320	5,158	7,152	7,727
Massachusetts	21,928	25,729	35,755	42,463	13,276	15,207	16,333	15,411
Michigan	20,433	22,005	29,923	40,035	12,433	13,212	13,998	15,025
Minnesota	13,192	14,184	18,222	22,087	4,029	3,922	3,864	4,670
Mississippi	3,141	3,553	5,101	6,474	894	961	1,140	1,701
Missouri	9,151	11,021	14,721	19,844	2,809	3,917	3,778	4,179
Montana	2,412	2,471	3,246	3,869	1,272	916	1,150	1,336
Nebraska	4,587	4,674	6,649	8,601	2,734	2,547	2,914	3,068
Nevada	888	1,052	1,718	2,615	574	470	816	851
New Hampshire	2,947	3,381	4,388	6,445	1,685	1,806	2,469	2,727
New Jersey	21,860	24,283	30,973	31,418	14,990	17,074	17,902	13,533
New Mexico	2,080	2,482	2,755	4,321	979	1,095	1,277	1,668
New York	67,199	72,456	89,072	98,667	34,715	35,326	36,023	29,940
North Carolina	10,793	12,038	16,573	23,718	3,310	3,475	4,660	5,949
North Dakota	2,138	2,095	2,853	3,670	1,002	768	738	935
Ohio	29,381	32,239	40,308	51,127	10,947	12,761	14,396	16,104
Oklahoma	3,948	4,435	6,496	8,107	1,890	1,842	2,161	2,587
Oregon	6,209	6,647	8,739	12,538	2,269	2,428	2,558	2,359
Pennsylvania	40,497	43,382	58,865	65,781	29,550	27,978	32,788	33,198
Rhode Island	3,381	3,617	4,631	5,986	1,526	1,624	1,867	1,729
South Carolina	5,184	5,367	7,790	9,967	1,814	1,918	2,141	2,832
South Dakota	1,896	2,055	3,025	3,504	858	804	663	995
Tennessee	6,324	6,628	9,338	13,989	2,277	2,622	[illegible]58	3,483
Texas	17,222	19,491	27,910	38,902	10,020	9,955	1[illegible]94	14,471
Utah	2,222	2,329	3,205	4,276	1,517	1,175	1,[illegible]32	1,793
Vermont	1,660	1,796	2,828	3,287	975	955	1,627	1,299
Virginia	9,886	11,461	16,472	21,239	4,895	4,976	7,140	8,307
Washington	10,024	11,259	14,266	17,097	6,426	6,430	6,583	7,453
West Virginia	4,415	4,687	5,980	7,364	1,063	1,298	970	2,009
Wisconsin	13,278	14,018	18,849	23,461	2,784	3,522	4,408	4,692
Wyoming	1,066	1,204	1,470	1,760	457	410	438	657

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[1] Excludes 32,594 in 1962; 29,646 in 1966; 32,576 in 1972; and 93,417 in 1977 who did not report activity status.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 17.

American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Table 17-Adjusted numbers of active registered nurses and rates per 100,000 population, by state of employment: selected years 1962-77

Region and State	Registered nurses employed 1962		Registered nurses employed 1966		Registered nurses employed 1972		Registered nurses employed 1977	
	Adjusted number 1/	Rate per 100,000 population	Adjusted number 1/	Rate per 100,000 population	Adjusted number 1/	Rate per 100,000 population	Adjusted number 1/	Rate per 100,000 population
United States	552,894	298	613,188	313	794,979	380	1,028,003	472
Northeast	182,784	398	202,293	422	255,573	501	297,764	600
North Central	152,312	291	170,096	311	220,133	382	290,370	498
South	120,120	210	135,268	223	187,508	289	261,297	377
West	97,678	324	105,531	324	131,765	387	178,572	451
Alabama	5,252	158	5,912	168	7,847	223	10,828	291
Alaska	696	288	590	223	1,399	422	1,776	422
Arizona	4,984	335	5,862	366	8,513	428	13,795	590
Arkansas	2,223	121	2,609	133	3,776	190	5,776	267
California	55,739	327	58,694	312	68,668	334	89,692	408
Colorado	7,034	372	8,312	425	11,780	491	15,492	583
Connecticut	11,565	440	15,438	536	17,887	579	20,789	663
Delaware	1,836	393	2,098	409	2,935	514	3,553	602
District of Columbia	4,172	529	3,662	454	5,020	673	6,136	885
Florida	16,809	309	21,760	369	26,202	353	41,120	475
Georgia	7,942	194	6,956	156	12,492	263	18,153	361
Hawaii	2,002	289	2,334	321	3,110	380	3,979	440
Idaho	1,935	276	1,954	280	2,518	329	3,516	404
Illinois	29,450	292	35,552	330	44,783	397	58,043	515
Indiana	11,632	249	12,829	259	15,841	298	22,909	429
Iowa	8,926	322	9,981	362	11,959	413	15,499	530
Kansas	6,293	284	6,895	303	9,098	400	11,848	506
Kentucky	5,392	175	6,297	198	8,487	256	11,677	333
Louisiana	6,695	199	6,758	187	9,133	245	11,459	291
Maine	3,658	374	4,051	414	4,810	464	6,263	574
Maryland	7,976	247	10,005	277	14,847	363	19,672	471
Massachusetts	26,693	514	28,743	532	37,620	649	45,165	776
Michigan	21,465	267	23,441	277	30,546	335	41,533	454
Minnesota	13,300	384	14,441	404	19,169	486	26,159	652
Mississippi	3,213	142	3,670	157	5,129	226	6,512	273
Missouri	9,562	222	11,291	247	14,982	312	21,542	449
Montana	2,438	350	2,483	354	3,261	451	3,957	510
Nebraska	4,630	320	4,730	329	6,802	443	8,874	562
Nevada	922	263	1,060	246	1,732	323	2,709	422
New Hampshire	3,074	494	3,521	521	4,445	572	6,628	782
New Jersey	22,141	348	24,942	362	31,943	432	35,284	480
New Mexico	2,134	214	2,511	250	2,778	258	4,468	368
New York	67,932	388	74,280	408	89,375	483	101,443	561
North Carolina	10,889	231	12,126	244	16,649	318	23,897	429
North Dakota	2,156	341	2,114	329	2,885	455	3,775	577
Ohio	29,599	295	32,649	315	42,032	389	52,969	485
Oklahoma	4,008	164	4,650	188	6,514	246	8,845	312
Oregon	6,297	348	6,814	345	8,790	399	12,793	532
Pennsylvania	42,501	373	45,809	395	61,927	519	72,610	612
Rhode Island	3,488	397	3,673	409	4,712	485	6,188	661
South Carolina	5,254	215	5,625	217	7,916	295	10,087	348
South Dakota	1,957	271	2,089	308	3,149	462	3,596	512
Tennessee	6,497	178	6,755	175	9,446	233	14,776	344
Texas	17,485	173	20,167	188	28,213	240	39,742	309
Utah	2,249	235	2,347	233	3,260	285	4,350	340
Vermont	1,732	448	1,836	447	2,854	612	3,394	698
Virginia	10,016	236	11,511	258	16,647	346	21,648	421
Washington	10,168	338	11,361	374	14,476	420	20,221	547
West Virginia	4,461	248	4,707	260	6,255	350	7,416	398
Wisconsin	13,342	332	14,084	338	18,887	416	23,623	505
Wyoming	1,080	325	1,209	379	1,480	425	1,824	440

1/ Adjusted for nonresponse to the question on employment status. The 1962 total in Illinois was adjusted also for nonresponse to all questions on the inventory.

SOURCES: U. S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U. S. Government Printing Office, 1974 p. 22.

American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Table 18-Registered nurses employed or resident in each region and State, by activity status: 1972 and 1977

Region and State	Total number of nurses		Actively employed in nursing		Not employed in nursing		Activity status not reported	
	1972	1977	1972	1977	1972	1977	1972	1977
United States	1,127,657	1,375,208	778,470	958,308	316,611	323,483	32,576	93,417
Northeast	379,091	410,010	248,779	276,681	117,032	105,655	13,280	27,674
North Central	299,569	372,827	215,198	268,650	74,761	77,052	9,610	27,125
South	256,954	346,286	184,973	249,843	66,838	79,355	5,143	17,088
West	192,043	246,085	129,520	163,134	57,980	61,421	4,543	21,530
Alabama	10,235	13,372	7,753	10,599	2,361	2,500	121	273
Alaska	2,030	2,474	1,373	1,670	617	658	40	146
Arizona	12,383	19,139	7,418	12,825	3,405	4.978	1,560	1,336
Arkansas	5,033	8,253	3,757	5,714	1,216	1,928	60	611
California	103,385	125,308	68,118	80,372	33,733	32,078	1,534	12,858
Colorado	15,515	20,801	11,634	15,138	3,567	5,200	314	463
Connecticut	23,612	27,851	17,567	16,712	5,530	5,253	515	5,886
Delaware	4,389	4,993	2,886	3,454	1,424	1,408	79	131
District of Columbia	5,545	6,613	4,968	5,625	519	434	58	554
Florida	38,398	55,368	25,498	37,517	11,058	12,398	1,842	5,453
Georgia	17,423	23,628	12,353	16,674	4,836	5,157	234	1,797
Hawaii	4,117	5,174	3,074	3,190	988	958	55	1,026
Idaho	3,755	4,962	2,504	3,463	1,216	1,432	35	67
Illinois	60,806	74,262	44,223	49,626	15,726	14,422	857	10,214
Indiana	21,481	28,069	15,539	20,891	4,955	4,682	987	[illegible]
Iowa	17,812	20,171	11,925	15,083	5,810	4,402	77	686
Kansas	12,655	16,143	8,961	10,721	3,511	3,878	183	1,544
Kentucky	11,734	15,583	8,432	11,020	3,157	3,682	145	881
Louisiana	11,524	14,298	9,070	11,234	2,351	2,782	103	282
Maine	7,440	8,966	4,700	5,922	2,493	2,565	247	479
Maryland	22,462	28,117	14,596	18,246	7,152	7,727	714	2,144
Massachusetts	56,567	61,664	35,755	42,463	16,333	15,411	4,479	3,790
Michigan	46,681	56,888	29,923	40,035	13,998	15,025	2,760	1,828
Minnesota	23,638	31,299	18,222	22,087	3,864	4,670	1,552	4,542
Mississippi	6,288	8,243	5,101	6,474	1,140	1,701	47	68
Missouri	18,823	26,662	14,721	19,844	3,778	4,179	324	2,639
Montana	4,429	5,326	3,246	3,869	1,150	1,336	33	121
Nebraska	9,798	12,002	6,649	8,601	2,914	3,068	235	333
Nevada	2,564	3,586	1,718	2,615	816	851	30	120
New Hampshire	7,044	9,457	4,388	6,445	2,469	2,727	187	285
New Jersey	51,061	49,969	30,973	31,418	17,902	13,533	2,186	5,018
New Mexico	4,077	6,281	2,755	4,321	1,277	1,668	45	292
New York	125,794	132,209	89,072	98,667	36,023	29,940	699	3,602
North Carolina	21,366	30,125	16,573	23,718	4,660	5,949	133	458
North Dakota	3,653	4,735	2,853	3,670	738	935	62	130
Ohio	57,052	69,620	40,308	51,127	14,396	16,104	2,348	2,389
Oklahoma	8,698	11,949	6,496	8,107	2,161	2,587	41	1,255
Oregon	11,382	15,199	8,739	12,538	2,558	2,359	85	302
Pennsylvania	96,414	107,153	58,865	65,781	32,788	33,198	4,761	8,174
Rhode Island	6,638	7,991	4,631	5,986	1,867	1,729	140	276
South Carolina	10,187	12,982	7,790	9,967	2,141	2,832	256	183
South Dakota	3,852	4,617	3,025	3,504	663	995	164	118
Tennessee	12,051	18,569	9,338	13,989	2,558	3,483	155	1,097
Texas	40,372	54,549	27,910	38,902	11,994	14,471	468	1,176
Utah	4,531	6,164	3,205	4,276	1,232	1,793	94	95
Vermont	4,521	4,750	2,828	3,287	1,627	1,299	66	164
Virginia	23,935	30,204	16,472	21,239	7,140	8,307	323	658
Washington	21,953	29,165	14,266	17,097	6,983	7,453	704	4,615
West Virginia	7,314	9,440	5,980	7,364	970	2,009	364	67
Wisconsin	23,318	28,359	18,849	23,461	4,408	4,692	61	206
Wyoming	1,922	2,506	1,470	1,760	438	657	14	89

SOURCES: Roth, Aleda V., and Wolden, Alice R. The Nation's Nurses. 1972 Inventory of Registered Nurses. Kansas City, Missouri, American Nurses' Association, 1974, p. 18.

American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Table 19-Estimated population and total registered nurses (RNs), by employment status, in States and DHHS Regions, 1977

DHHS Region and State	Resident population July 1, 1977 (thousands)	Total Registered Nurses	RN's employed in nursing: Total Employed	Full time	Part time	Hours not reported	RN's not employed in nursing	Employment status not reported
United States........	217,783	1,375,208	958,308	667,709	286,515	4,084	323,483	93,417
Region I.............	12,321	120,679	80,815	49,575	30,806	434	28,984	10,880
Connecticut........	3,139	27,851	16,712	9,824	6,874	14	5,253	5,886
Maine..............	1,092	8,966	5,922	3,824	2,088	10	2,565	479
Massachusetts......	5,820	61,664	42,463	26,114	16,002	347	15,411	3,790
New Hampshire......	848	9,457	6,445	4,093	2,332	20	2,727	285
Rhode Island.......	936	7,991	5,986	3,618	2,336	32	1,729	276
Vermont............	486	4,750	3,287	2,102	1,174	11	1,299	164
Region II............	25,438	182,178	130,085	92,963	36,816	306	43,473	8,620
New Jersey.........	7,349	49,969	31,418	20,578	10,734	106	13,533	5,018
New York...........	18,089	132,209	98,667	72,385	26,082	200	29,940	3,602
Puerto Rico........	--	--	--	--	--	--	--	--
Virgin Islands.....	—	—	--	--	--	--	--	--
Region III...........	24,346	186,520	121,709	84,990	36,588	131	53,083	11,728
Delaware...........	590	4,993	3,454	2,331	1,112	11	1,408	131
District of Columbia......	693	6,613	5,625	4,646	968	11	434	554
Maryland...........	4,178	28,117	18,246	12,295	5,892	59	7,727	2,144
Pennsylvania.......	11,874	107,153	65,781	44,651	21,123	7	33,198	8,174
Virginia...........	5,148	30,204	21,239	15,370	5,859	10	8,307	658
West Virginia......	1,863	9,440	7,364	5,697	1,634	33	2,009	67
Region IV............	36,070	177,870	129,958	104,222	25,591	145	37,702	10,210
Alabama............	3,725	13,372	10,599	8,748	1,827	24	2,500	273
Florida............	8,658	55,368	37,517	29,334	8,148	35	12,398	5,453
Georgia............	5,028	23,628	16,674	13,390	3,249	35	5,157	1,797
Kentucky...........	3,506	15,583	11,020	8,545	2,454	21	3,682	881
Mississippi........	2,388	8,243	6,474	5,454	1,013	7	1,701	68
North Carolina.....	5,572	30,125	23,718	19,228	4,481	9	5,949	458
South Carolina.....	2,898	12,982	9,967	8,021	1,944	2	2,832	183
Tennessee..........	4,295	18,569	13,989	11,502	2,475	12	3,483	1,097
Region V.............	45,189	288,497	207,227	133,408	72,803	1,016	59,595	21,675
Illinois...........	11,278	74,262	49,626	33,908	15,449	269	14,422	10,214
Indiana............	5,338	28,069	20,891	13,855	6,877	159	4,682	2,496
Michigan...........	9,157	56,888	40,035	26,137	13,606	292	15,025	1,828
Minnesota..........	4,014	31,299	22,087	12,674	9,321	92	4,670	4,542
Ohio...............	10,722	69,620	51,127	33,320	17,705	102	16,104	2,389
Wisconsin..........	4,680	28,359	23,461	13,514	9,845	102	4,692	206
Region VI............	23,003	95,330	68,278	54,836	13,237	205	23,436	3,616
Arkansas...........	2,159	8,253	5,714	4,702	1,011	1	1,928	611
Louisiana..........	3,931	14,298	11,234	9,034	2,181	19	2,782	282
New Mexico.........	1,215	6,281	4,321	3,215	1,089	17	1,668	292
Oklahoma...........	2,831	11,949	8,107	6,337	1,757	13	2,587	1,255
Texas..............	12,867	54,549	38,902	31,548	7,199	155	14,471	1,176
Region VII...........	11,646	74,978	54,249	34,991	18,567	691	15,527	5,202
Iowa...............	2,926	20,171	15,083	9,318	5,740	25	4,402	686
Kansas.............	2,339	16,143	10,721	5,895	4,203	623	3,878	1,544
Missouri...........	4,802	26,662	19,844	14,474	5,354	16	4,179	2,639
Nebraska...........	1,579	12,002	8,601	5,304	3,270	27	3,068	333
Region VIII..........	6,481	44,149	32,217	21,003	10,901	313	10,916	1,016
Colorado...........	2,657	20,801	15,138	10,215	4,908	15	5,200	463
Montana............	775	5,326	3,869	2,345	1,517	7	1,336	121
North Dakota.......	655	4,735	3,670	2,282	1,373	15	935	130
South Dakota.......	702	4,617	3,504	2,258	1,232	14	995	118
Utah...............	1,278	6,164	4,276	2,683	1,332	261	1,793	95
Wyoming............	414	2,506	1,760	1,220	539	1	657	89
Region XI............	25,900	153,207	99,002	70,287	28,414	301	38,865	15,340
Arizona............	2,339	19,139	12,825	9,672	3,136	17	4,978	1,336
California.........	22,015	125,308	80,372	55,982	24,135	255	32,078	12,858
Guam...............	—	--	--	--	--	--	--	--
Hawaii.............	904	5,174	3,190	2,594	576	20	958	1,026
Nevada.............	642	3,586	2,615	2,039	567	9	851	120
Trust Territories..	--	--	--	--	--	--	--	--
Region X.............	7,389	51,800	34,768	21,434	12,792	542	11,902	5,130
Alaska.............	421	2,474	1,670	1,213	445	12	658	146
Idaho..............	870	4,962	3,463	2,209	1,188	66	1,432	67
Oregon.............	2,404	15,199	12,538	7,686	4,826	26	2,359	302
Washington.........	3,694	29,165	17,097	10,326	6,333	438	7,453	4,615

SOURCE: American Nurses Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

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Table 20-Adjusted number of licensed practical nurses[1]
and rates per 100,000 population, by State of employment: 1967 and 1974

Region and State	Practical nurses employed 1967		Practical nurses employed 1974	
	Adjusted Number[2]	rate per 100,000 pop.	Adjusted Number[2]	rate per 100,000 pop.
United States......	269,723	137	405,546	192
Northeast........	78,462	163	98,584	199
North Central....	64,948	118	104,901	182
South............	86,993	141	138,740	205
West.............	39,320	119	63,321	169
Alabama............	4,437	125	8,398	234
Alaska.............	199	73	400	111
Arizona............	1,737	104	3,281	149
Arkansas...........	3,448	176	5,008	240
California.........	20,091	103	35,535	169
Colorado...........	3,696	181	4,498	177
Connecticut........	3,677	125	5,840	188
Delaware...........	650	125	838	144
District of Columbia.........	2,162	267	2,352	328
Florida............	9,747	158	12,788	156
Georgia............	3,912	88	10,818	221
Hawaii.............	1,319	176	1,703	198
Idaho..............	1,445	205	1,995	250
Illinois...........	12,146	111	15,363	137
Indiana............	3,222	64	6,463	121
Iowa...............	2,440	87	5,597	194
Kansas.............	1,897	83	3,185	139
Kentucky...........	2,924	92	5,229	155
Louisiana..........	5,067	138	7,565	199
Maine..............	691	70	1,882	180
Maryland...........	3,065	82	5,235	127
Massachusetts......	12,469	228	13,418	230
Michigan...........	11,948	140	17,803	196
Minnesota..........	5,053	139	9,534	242
Mississippi........	3,029	130	4,722	203
Missouri...........	6,819	149	9,420	196
Montana............	591	82	1,415	191
Nebraska...........	1,172	79	2,847	182
Nevada.............	552	116	990	171
New Hampshire......	1,011	151	1,532	188
New Jersey.........	8,081	115	14,605	198
New Mexico.........	1,188	112	1,797	158
New York...........	25,293	139	33,162	182
North Carolina.....	5,407	108	8,927	166
North Dakota.......	606	94	1,392	215
Ohio...............	14,998	141	24,161	225
Oklahoma...........	3,387	136	5,481	202
Oregon.............	2,179	109	3,104	136
Pennsylvania.......	24,652	210	24,581	207
Rhode Island.......	1,632	181	2,285	245
South Carolina.....	2,239	85	4,622	165
South Dakota.......	651	92	1,184	170
Tennessee..........	5,793	149	11,915	286
Texas..............	24,440	222	32,354	266
Utah...............	1,207	116	1,715	144
Vermont............	956	236	1,279	270
Virginia...........	4,884	107	8,974	182
Washington.........	4,835	155	6,402	185
West Virginia......	2,402	136	3,514	194
Wisconsin..........	3,996	94	7,952	173
Wyoming............	281	80	486	134

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[1] Licensed vocational nurses in California and Texas.
[2] Adjusted for non response to the question on employment status.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing, LPNs 1967-An Inventory of Licensed Practical Nurses. Washington, U.S. Government Printing Office, 1971, pp. 17, 19.

Roth, Aleda V. and Schmittling, Gordon T. LPNs 1974 Inventory of Licensed Practical Nurses. Kansas City, Missouri. American Nurses' Association, 1977.

Table 21-Licensed practical nurses employed or resident in each region and State, by activity status: 1967 and 1974

Region and State	Total number of nurses		Activity employed in nursing		Not employed in nursing		Activity status not reported	
	1967	1974	1967	1974	1967	1974	1967	1975
United States............	343,635	533,459	252,522	377,889	69,189	113,689	21,924	41,881
Northeast..............	104,607	138,485	73,553	91,423	24,485	35,638	6,569	11,424
North Central..........	80,511	131,912	61,569	102,525	14,745	25,026	4,197	4,361
South..................	106,684	176,376	80,079	131,110	18,040	34,348	8,565	10,918
West...................	51,833	86,686	37,321	52,831	11,919	18,677	2,593	15,178
Alabama..................	5,271	10,056	4,263	8,217	805	1,620	203	219
Alaska...................	285	624	198	391	86	213	1	20
Arizona..................	2,221	4,323	1,709	3,097	478	963	34	263
Arkansas.................	4,128	6,530	3,360	4,959	664	1,492	104	79
California...............	26,203	47,725	18,479	25,976	5,626	8,335	2,098	13,414
Colorado.................	4,510	5,876	3,657	4,448	809	1,298	44	130
Connecticut..............	4,386	7,198	3,549	5,610	683	1,263	154	325
Delaware.................	803	1,165	640	823	149	309	14	33
District of Columbia.....	2,431	2,655	2,090	2,297	259	297	82	61
Florida..................	11,625	17,130	8,753	12,313	1,674	4,229	1,198	588
Georgia..................	4,987	13,721	3,801	7,822	1,046	2,036	140	3,863
Hawaii...................	1,588	2,189	1,203	1,365	244	382	141	442
Idaho....................	1,957	2,812	1,439	1,982	510	808	8	22
Illinois.................	14,571	18,564	11,150	15,173	2,231	3,082	1,190	309
Indiana..................	3,885	8,051	2,997	6,200	620	1,372	268	479
Iowa.....................	3,335	7,100	2,373	5,571	876	1,485	86	44
Kansas...................	2,422	4,170	1,801	3,140	503	888	118	142
Kentucky.................	3,621	6,624	2,787	5,146	666	1,365	168	113
Louisiana................	6,322	9,416	5,032	7,460	1,248	1,778	42	178
Maine....................	1,037	2,589	655	1,865	327	669	55	55
Maryland.................	3,990	6,814	3,025	5,098	912	1,514	53	202
Massachusetts............	16,633	19,387	9,532	12,799	3,176	4,753	3,925	1,835
Michigan.................	16,122	25,419	10,781	17,479	3,778	6,528	1,563	1,412
Minnesota................	6,226	11,477	4,964	9,092	1,158	1,820	104	565
Mississippi..............	3,579	5,641	2,912	4,702	533	892	134	47
Missouri.................	7,901	10,809	6,490	8,973	1,032	1,324	379	512
Montana..................	812	1,907	587	1,412	221	474	4	21
Nebraska.................	1,528	3,800	1,144	2,805	348	904	36	91
Nevada...................	802	1,397	544	976	246	372	12	49
New Hampshire............	1,436	2,211	932	1,500	388	640	116	71
New Jersey...............	11,086	20,789	7,464	9,104	2,776	3,725	846	7,960
New Mexico...............	1,515	2,519	1,116	1,736	307	691	92	92
New York.................	34,850	45,798	24,961	32,817	9,436	12,436	453	545
North Carolina...........	6,593	11,114	5,229	8,351	1,153	2,167	211	96
North Dakota.............	766	1,741	603	1,392	160	336	3	13
Ohio.....................	18,368	29,956	14,683	23,585	3,307	5,624	378	747
Oklahoma.................	4,195	7,080	2,973	5,462	713	1,560	509	58
Oregon...................	3,001	4,174	2,164	3,041	818	1,033	19	100
Pennsylvania.............	31,747	35,578	23,940	24,218	6,878	10,814	929	546
Rhode Island.............	2,153	2,990	1,585	2,239	505	694	63	57
South Carolina...........	2,676	5,476	2,183	4,496	428	803	65	177
South Dakota.............	817	1,503	614	1,181	159	312	44	10
Tennessee................	6,969	14,383	5,669	9,552	1,155	1,925	145	2,906
Texas....................	30,814	42,913	20,237	31,553	5,270	9,286	5,307	2,074
Utah.....................	1,551	2,683	1,191	1,636	339	676	21	371
Vermont..................	1,279	1,945	935	1,271	316	644	28	30
Virginia.................	5,859	11,260	4,808	8,928	959	2,224	92	108
Washington...............	7,014	9,809	4,757	6,285	2,143	3,277	114	247
West Virginia............	2,821	4,398	2,317	3,431	406	851	98	116
Wisconsin................	4,570	9,322	3,969	7,934	573	1,351	28	37
Wyoming..................	374	648	277	486	92	155	5	7

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing, LPNs 1967-An Inventory of Licensed Practical Nurses. Washington, U.S. Government Printing Office, 1971, pp. 17, 19.

Roth, Aleda V. and Schmittling, Gordon T. LPNs 1974 Inventory of License Practical Nurses. Kansas City, Missouri. The Association, 1977.

Table 22-Full-time equivalent[1] active registered nurses and licensed practical nurses[2] and rates per 100,000 population, by State of employment: selected years 1972-77

Region and State	FTE registered nurses 1972		FTE registered nurses 1977		FTE practical nurses 1974	
	Number	rate per 100,000 pop.	Number	rate per 100,000 pop.	Number	rate per 100,000 pop.
United States......	667,626	319	872,427	400	356,353	168
Northeast........	206,801	414	249,673	503	84,412	170
North Central....	184,636	319	238,585	410	89,957	156
South............	163,576	250	233,417	332	125,988	186
West.............	112,613	310	150,752	378	55,996	149
Alabama............	7,000	199	9,890	265	7,867	219
Alaska.............	1,205	364	1,538	365	355	99
Arizona............	8,248	415	12,105	518	2,902	132
Arkansas...........	3,329	167	5,263	244	4,545	218
California.........	58,662	285	76,237	346	31,576	150
Colorado...........	10,025	419	12,980	489	3,913	154
Connecticut........	13,670	443	16,517	526	4,816	155
Delaware...........	2,408	422	2,979	505	728	125
District of Columbia.........	4,447	596	5,607	809	2,177	303
Florida............	22,764	307	36,677	424	11,256	137
Georgia............	11,150	235	16,385	326	10,009	204
Hawaii.............	2,864	350	3,618	400	1,625	189
Idaho..............	2,065	270	2,900	333	1,738	217
Illinois...........	37,062	328	49,002	434	13,462	120
Indiana............	12,995	245	19,109	358	5,595	105
Iowa...............	9,566	330	12,546	429	4,734	164
Kansas.............	7,656	337	9,383	401	2,896	127
Kentucky...........	7,312	221	10,373	296	4,799	142
Louisiana..........	8,038	215	10,345	263	6,658	176
Maine..............	3,819	368	5,159	472	1,545	147
Maryland...........	12,197	298	16,487	395	4,672	113
Massachusetts......	29,593	510	36,586	629	11,181	191
Michigan...........	24,671	270	34,456	376	15,103	166
Minnesota..........	14,974	380	20,614	514	7,672	195
Mississippi........	4,706	207	6,004	251	4,314	186
Missouri...........	12,579	262	18,670	389	8,366	174
Montana............	2,592	358	3,179	326	1,259	170
Nebraska...........	5,513	359	7,181	455	2,489	159
Nevada.............	1,549	289	2,413	376	907	156
New Hampshire......	3,611	464	5,427	640	1,273	156
New Jersey.........	25,026	338	29,238	398	12,494	169
New Mexico.........	2,434	226	3,906	321	1,606	141
New York...........	74,378	404	88,004	486	28,543	157
North Carolina.....	14,578	274	21,639	388	7,706	144
North Dakota.......	2,342	369	3,067	468	1,186	183
Ohio...............	40,258	372	42,953	401	20,966	195
Oklahoma...........	5,778	218	7,884	278	5,046	186
Oregon.............	7,151	324	10,326	430	2,687	117
Pennsylvania.......	50,656	424	60,983	514	21,632	182
Rhode Island.......	3,720	382	4,974	531	1,852	198
South Carolina.....	6,962	260	9,104	314	4,221	151
South Dakota.......	2,488	365	2,958	421	1,021	147
Tennessee..........	8,398	207	13,471	314	10,944	263
Texas..............	25,167	214	36,057	280	29,806	246
Utah...............	2,708	237	3,629	284	1,455	122
Vermont............	2,328	500	2,785	573	1,076	227
Virginia...........	13,912	291	18,662	362	8,039	163
Washington.........	11,889	345	16,377	443	5,547	160
West Virginia......	5,430	304	6,590	354	3,201	177
Wisconsin..........	14,532	320	18,646	398	6,467	140
Wyoming............	1,221	351	1,544	372	426	117

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[1] Numbers working full time plus one-half the numbers working part time.
[2] Licensed vocational nurses in California and Texas.

SOURCES: Roth, Aleda V. and Walden, Alice R. The Nation's Nurses. 1972 Inventory of Registered Nurses. Kansas City, Missouri. American Nurses' Association, 1974

American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association. unpublished data.

Table 23-Registered nurses licensed for the first time in the United States by region and State: selected years 1950-79

Region and State	Total new licenses issued[1]						
	1950	1955	1960	1965	1970	1975	1979
United States	25,429	31,948	32,295	36,431	46,964	75,858	81,178
Northeast	9,489	11,069	11,361	12,948	17,093	23,109	19,329
North Central	7,910	12,289	10,812	11,202	14,604	21,963	21,580
South	5,114	5,365	6,164	7,049	9,174	19,823	30,183
West	2,916	3,225	3,958	5,232	6,093	10,963	10,086
Alabama	243	232	254	318	449	913	1,519
Alaska	---	15	28	28	22	68	65
Arizona	123	34	108	162	354	766	740
Arkansas	177	177	157	150	156	554	---
California	1,293	1,642	2,086	3,193	3,246	6,306	5,483
Colorado	202	232	262	317	540	632	---
Connecticut	586	691	725	779	767	1,137	1,117
Delaware	116	116	86	132	131	263	300
District of Columbia	185	146	251	367	409	371	---
Florida	104	276	425	683	1,023	2,447	3,237
Georgia	132	356	460	570	704	1,318	1,682
Hawaii	103	126	189	215	121	---	167
Idaho	169	98	61	78	110	246	238
Illinois	1,673	2,860	1,753	2,485	2,981	4,029	5,185
Indiana	530	724	841	784	1,003	1,794	2,184
Iowa	467	614	792	697	713	1,122	1,358
Kansas	340	474	30	438	550	829	---
Kentucky	196	331	365	361	499	1,126	1,294
Louisiana	475	327	314	310	449	985	1,269
Maine	212	195	161	158	212	366	449
Maryland	401	113	547	661	862	1,302	1,282
Massachusetts	1,634	1,715	1,827	1,858	2,230	3,401	---
Michigan	1,031	1,182	1,214	1,342	1,932	3,550	3,355
Minnesota	840	1,134	1,370	1,098	1,524	2,017	---
Mississippi	182	149	113	129	272	631	717
Missouri	554	801	935	917	1,311	1,894	2,006
Montana	154	181	935	132	171	256	329
Nebraska	263	348	318	439	543	672	690
Nevada	7	5	15	27	58	174	439
New Hampshire	127	194	175	184	200	257	272
New Jersey	801	1,036	1,177	1,318	1,311	2,652	2,688
New Mexico	[illegible]	22	74	63	172	279	349
New York	[illegible]	3,336	3,812	4,862	7,338	10,187	9,081
North Carolina	665	617	636	730	886	1,717	9,197
North Dakota	212	259	221	83	257	354	354
Ohio	1,271	2,916	2,021	2,143	2,611	3,712	4,330
Oklahoma	185	236	251	177	249	[illegible]	737
Oregon	204	270	311	266	595	[illegible]	942
Pennsylvania	3,228	3,599	3,456	3,467	4,516	4,517	5,127
Rhode Island	163	195	225	235	364	423	424
South Carolina	236	305	331	294	405	737	732
South Dakota	164	241	237	217	239	341	361
Tennessee	388	544	493	400	---	1,319	1,615
Texas	625	590	618	784	1,403	3,380	4,123
Utah	109	164	135	157	---	345	---
Vermont	69	108	73	87	155	169	171
Virginia	483	568	568	699	936	1,446	1,796
Washington	525	429	449	568	662	1,086	1,334
West Virginia	321	342	295	284	341	582	683
Wisconsin	565	736	810	559	940	1,649	1,757
Wyoming	2	7	28	26	42	70	---
Guam	---	---	---	---	13	11	25
Puerto Rico	206	341	230	---	---	---	---
Virgin Islands	---	1	---	1	37	20	15

[1] Licenses issued on the basis of: examination, endorsement of a license or certificate from a foreign country, or waiver.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication no. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

American Nurses' Association. Facts About Nursing 76-77. Kansas City, Missouri, The Association, 1977, p. 61; 1979 unpublished data.

Table 24-Practical nurses licensed for the first time in the United States by region and State: selected years 1950-79

Region and State	Total new licenses issued[1]						
	1950	1955	1960	1965	1970	1975	1979
United States	11,423	16,930	19,760	27,455	37,576	49,569	40,876
Northeast	4,966	2,435	6,757	7,161	9,624	14,399	11,351
North Central	1,887	5,982	4,945	7,201	11,356	11,709	10,534
South	2,167	5,279	5,425	8,994	11,776	14,937	16,146
West	2,403	3,234	2,633	4,099	4,820	8,524	2,845
Alabama	53	270	327	473	1,051	846	1,018
Alaska	-	22	14	41	41	29	25
Arizona	-	49	137	171	252	251	497
Arkansas	183	330	262	520	464	563	[2]
California	-	1,694	1,146	2,000	2,418	5,182	[2]
Colorado	-	-	351	380	389	475	[2]
Connecticut	128	223	221	316	605	602	424
Delaware	-	109	23	144	80	112	71
District of Columbia	-	-	-	161	110	25	[2]
Florida	306	429	450	764	1,098	2,610	2,565
Georgia	-	150	272	709	863	1,269	1,925
Hawaii	130	138	92	88	85	[2]	160
Idaho	34	150	111	172	140	214	203
Illinois	-	402	541	1,084	1,038	1,057	2,093
Indiana	-	319	286	454	756	986	758
Iowa	325	59	165	349	727	849	1,092
Kansas	653	52	69	248	386	491	[2]
Kentucy	44	101	64	464	656	442	491
Louisiana	363	320	230	337	576	705	1,028
Maine	-	7	80	91	197	237	301
Maryland	225	316	233	147	421	555	375
Massachusetts	251	350	2,863	787	1,257	1,282	[2]
Michigan	67	712	1,112	1,502	1,800	1,888	1,606
Minnesota	354	199	652	720	988	1,239	[2]
Mississippi	-	1,097	181	264	525	510	619
Missouri	-	3,845	426	517	838	1,075	1,025
Montana	-	77	19	102	199	163	176
Nebraska	-	-	88	161	365	495	392
Nevada	131	80	34	68	100	161	311
New Hampshire	-	5	56	209	151	158	151
New Jersey	1,589	152	455	527	730	1,799	1,883
New Mexico	-	294	139	128	161	311	332
New York	2,975	1,272	1,730	3,364	4,265	7,091	5,623
North Carolina	46	392	309	510	792	975	1,049
North Dakota	45	30	68	131	290	53	298
Ohio	-	-	1,024	1,371	3,112	2,350	2,039
Oklahoma	40	49	190	281	432	536	712
Oregon	658	98	174	210	296	394	384
Pennsylvania	15	290	1,136	1,646	2,105	2,842	2,728
Rhode Island	8	96	146	112	173	190	106
South Carolina	366	84	145	203	614	486	516
South Dakota	218	35	136	112	221	221	252
Tennessee	398	366	520	678	[2]	856	974
Texas	-	932	1,555	2,542	2,668	3,074	3,400
Utah	47	113	26	91	[2]	435	[2]
Vermont	-	40	70	109	141	198	135
Virginia	143	334	498	548	1,058	1,013	1,003
Washington	1,403	490	381	620	710	854	757
West Virginia	-	-	166	249	368	360	400
Wisconsin	225	329	378	552	825	1,005	979
Wyoming	-	29	9	28	29	55	[2]
Guam	-	-	-	-	-	24	29
Puerto Rico	-	41	73	-	-	-	-
Virgin Islands	-	-	-	4	6	6	10

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[1] Licenses issued on the basis of: examination, endorsement of a license or certificate from a foreign country, or waiver.
[2] Not reported.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication nc. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

American Nurses' Association. Facts About Nursing 76-77. Kansas City, Missouri, The Association, 1977, p. 261; 1979 unpublished data.

Chapter III

Characteristics of Nurses

This chapter presents statistics from various sources on the characteristics of the nurse population. The vast majority of the statistics presented are based on the inventories compiled by the American Nurses' Association. Some limited data is from the Bureau of the Census and special studies such as the Nurse Career-Pattern Study, and the 1977 National Sample Survey of Registered Nurses.

The census data on characteristics of nursing personnel, i.e., age, sex, marital status, etc., are subject to the limitations described in chapter II for the general distribution of the nurse population. Nevertheless, except for the more recent inventories, the Bureau of the Census is the major source of historical national statistics on nursing occupations, except for limited surveys made by agencies or professional organizations for special purposes.

Census information for the 40-year period 1920 to 1960 shows a rising age level for professional (registered) nurses. In 1920, 16 percent were 45 years or over; in 1960 the proportion was 40 percent of the adjusted totals.[1] [2] The unadjusted census figure for 1970--not comparable to adjusted census figures--shows about 38 percent in the 45-and-over age group. Data from the inventories also show a rise over the years in the proportions of active RNs who were 45 years or over: from 23.1 percent in 1951 to 31.7 percent in 1977 (table 25). The proportion of active registered nurses found to be in this age group in the 1977 Sample Survey was 32.4 percent, not significantly different from the 1977 inventory figure.

A rise in the proportion of older inactive registered nurses is also observed in each inventory year through 1966, although the proportions were lower than the corresponding proportions of active registered nurses. Beginning in 1972, however, the relative statistics reversed: over 42 percent of the inactive RN's reported they were 45 years or over, compared to 37 percent of the active RN's. The 1977 inventory statistics confirm this reversal; over 49 percent of the inactive RN's reported they were 45 years or over, compared to 32 percent of the active RN's (tables 25 and 26). The 1977 Sample Survey shows 52 percent of the inactive RN's as 45 years or over as compared with 32 percent of the active RN's. Median ages computed for both active and inactive RN's from the inventory data for the regions and States are shown in table 27.

The age distributions and median ages of female practical nurses and lay midwives reported by the Census in 1950 and 1960 showed a slight decline in the proportions who were 45 years or over--from 59.9 percent in 1950 to 59.1 percent in 1960, with a corresponding drop in median age from 49.1 to 48.5 years.[3] In the 1970 census, lay midwives were taken out of this occupational category and counted with other health service workers. The unadjusted census figure for female practical nurses in 1970 show that only 41.2 percent were 45 years or over and the median age of all the practical nurses was 40.6 years.[4]

Data from the inventories of licensed practical nurses show a marked decline in the proportions of active and inactive LPN's in the 45 years or over age group. In 1967, 47 percent of the active LPN's were 45 years or over; in 1974 the proportion in this age group was 36 percent. The inactives followed the same pattern; in 1967, 45 percent of the inactive LPN's were 45 years or over, compared to 40 percent in 1974. The median ages of LPN's in 1974 were 38.7 years for LPN's working in nursing and 39.2 years for the inactive LPN's.

Table 28 compares the distribution of RN's in 1966, 1972, and 1977 by five-year age intervals, and points up the great increase in numbers of active RN's in younger age groups--nurses under 40 years of age--over the inventory periods. Similarly, table 29 gives a like comparison of the distribution of LPN's in 1967 and 1974 by 5-year age intervals. Here again the data points out a marked increase in LPN's in the younger age intervals.

Characteristics of nursing aides, orderlies, and attendants have not been reported consistently over the years because titles changed and definitions varied. These persons usually are not licensed, although some States do require psychiatric aids to be licensed. The Census reports contain the most comprehensive national statistics on auxiliary nursing personnel available. The 1970 census reports that the median age of female nursing aides, orderlies, and attendants was 38.7 years and the proportion in the 45 years and over group was more than 37 percent.[5]

Census information shows that the proportion of males among professional nurses and students dropped from 6 percent in 1900 to 2 percent in 1950. The 1960 census reported that 2.5 percent of professional nurses, 4.3 percent of all practical nurses and 15.1 percent of the aides, orderlies, and attendants were male. The 1970 census reported the following proportion of men among nursing personnel: [6] 2.7 percent of registered nurses; 3.6 percent of practical nurses; and 15.2 percent of aides, orderlies, and attendants. The post-census special study of registered nurses described in chapter II, however, showed that, if corrections were to be made to eliminate from the census those who were not registered nurses, the proportion who were men would decrease. Only 1.7 percent of the adjusted estimate of 655,000 registered nurses in that study were estimated to be males in 1970.

The inventory figures on male registered nurses have been consistently lower than these of census data. [7] The proportion of men among the active registered nurses in the inventories are: 0.8 percent in 1949 and 1957; 0.9 percent in 1962; 1.1 percent in 1966; 1.4 percent in 1972; and 2.4 percent in 1977. The proportion of the active registered nurses who were men estimated in the 1977 Sample Survey was 1.9 percent. Men-licensed practical nurses in the 1967 and 1974 inventories were 2.7 percent and 2.8 percent respectively of the total active LPN's reported in each inventory year.

Both census and inventory figures show an increasing proportion of married nurses among active registered nurses (table 32). This rate rose from 11 percent, computed from census data for 1920, to nearly 67 percent computed from the 1977 inventory. This is a slight decline from the 69 percent computed from the 1972 inventory. However, the large numbers for whom marital status was unknown may be responsible for some distortion of the data (table 30). In the 1977 Sample Survey, 68.9 percent of the active RN's were estimated to be married. The proportion of married among inactive RN's has been consistently high in each inventory report--four out of every five inactive nurses (table 33). In the 1967 and 1974 LPN inventories, 58.2 percent and 60.8 percent, respectively, of the active licensed practical nurses were married. In both LPN inventory years the proportion of active LPN's who were widowed, divorced, or separated totaled over 22 percent--well above the percentage of active RN's in this group for any inventory year (table 31).

Trend data in the census on the racial composition of the population by specific profession and occupation are subject to the same limitations of reporting, definitional changes, sampling variability, etc., as are the reports of other socioeconomic characteristics. Except for the national estimates made by the Division of Nursing, estimates of racial distribution of employed nursing personnel have been based on adjusted decennial census reports. Prior to 1970 the census tabulations by occupation by race did not show male nursing personnel as a separate line item, but included them in the general occupational classifications.

The proportion of employed female professional (registered) nurses who were not white rose from 2.0 percent in 1930 and 1940 to 6.5 percent in 1960, according to census information. Of the practical nurses and lay midwives the proportions of nonwhite were 12.4 percent in 1950 and 17.0 percent in 1960. The proportion of persons counted as attendants in hospitals and institutions in 1960 who were nonwhite was 23.9 percent. Only the 1960 report contains a separate tabulation of black and other nonwhite races represented in specific occupations. In that year, blacks were 5.6 percent of the total female professional nurses; 16.3 percent of female practical nurses and midwives; and 23.2 percent of female attendants.

The 1970 census reports the following proportions of black nursing personnel: 7.5 percent of total registered nurses; 21.9 percent of total practical nurses; and 25.2 percent of total nursing aides, orderlies, and attendants. Persons of other races are not counted separately in the tables by detailed occupation. The 1970 census estimates that 9.4 percent of the 841,000 registered nurses reported in the census were members of other than the white race. The post-census special study showed, however, that if corrections were made to estimate all those who were incorrectly classified as registered nurses, only 5.2 percent of the adjusted estimated total of 655,000 fell into the category of non-white (tables 36 and 37).

In addition to the question on color or race, the 5-percent sample questionnaire of the 1970 census contained an inquiry about ethnic origin or descent specifically related to Spanish heritage, i.e., Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish. The estimates obtained on the basis of responses to this question showed that 2.1 percent of registered nurses, 3.3 percent of practical nurses, and 3.8 percent of aides, orderlies, and attendants were persons of Spanish heritage.[8]

In the 1977 Sample Survey registered nurses with minority racial/ethnic backrounds accounted for an estimated 6.2 percent of the registered nurse population. A more detailed breakdown of this group showed an estimated 2.5 were black; and 0.2 percent were American Indian; 2.1 percent were Asian or Pacific Islander; and 1.4 percent had a Hispanic backround. Caucasians were 92.3 percent of the nursing population. Racial/ethnic background could not be determined for an estimated 1.4 percent (table 34).

Tables 38 and 39 feature data from the Nurse Career-Pattern Study, a longitudinal study of cohort groups from entrance into nursing school through their work lives as nurses.[9] [10] [11] [12] The study focuses on the relationship of type of nursing education program to occupational goals, the relationship of marriage and family responsibility to work life, and the relationship of biographical characteristics to graduation or withdrawal from nursing school. The two tables present a comparison of the working status of RN's with two key characteristics--marital status and number of children--in 5-year intervals after graduation from the nursing program for cohort groups that entered nursing school in 1962 and 1967.

Data from 1977 Sample Survey shows, as have previous studies, a dip in the activity rates of nurses between the childbearing ages of 25 to 39, a moderate resurgence in employment from 40 to 54, and a general decline in activity status thereafter (table 35). Also, the data suggest in comparison with prior studies that younger nurses are more likely to be employed now and that older nurses are dropping out of nursing at higher rates than have been previously evidenced.

Tables 40-45 and tables 48-53 contain detailed data for each State on numbers of active registered nurses by field of employment and by type of position as reported in the inventories. The distribution of active licensed practical nurses in 1967 and 1974 by census region and field of employment is shown in table 47.

Table 46 contains data for the nation on the numbers of registered nurses within each field of employment by type of position as reported in the 1977 Sample Survey. In this study almost two thirds (63.6 percent) of all employed nurses were estimated to hold staff positions and 8.7 percent were estimated to hold head nurse positions.

The total numbers of aides, orderlies, and attendants employed in each State have not been compiled by field of employment except for special surveys, e.g., hospitals, nursing homes, community health.

References

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Table 25-Age distribution of active registered nurses[1] in the United States: selected years 1951-1977

Age	1951	1957	1962	1966	1972	1977
	Number					
Total	333,268	464,138	532,118	593,694	778,470	958,308
Under 30.........	119,704	137,239	131,901	151,047	193,860	270,102
30-39............	83,878	114,311	130,692	131,857	179,180	257,827
40-44............	40,006	48,462	61,845	74,855	82,517	104,606
45-49............	27,124	49,080	60,102	64,425	91,609	92,654
50-59............	36,272	62,062	94,018	106,037	128,430	154,046
60 or over.......	13,806	30,548	37,666	47,071	68,661	56,727
Unknown age......	12,478	22,436	15,894	18,402	34,213	22,346
	Percent					
Total	100.0	100.0	100.0	100.0	100.0	100.0
Under 30.........	36.0	29.6	24.8	25.5	24.9	28.2
30-39............	25.2	24.6	24.5	22.2	23.0	26.9
40-44............	12.0	10.4	11.6	12.6	10.6	10.9
45-49............	8.1	10.6	11.3	10.9	11.8	9.7
50-59............	10.9	13.4	17.7	17.8	16.5	16.1
60 or over.......	4.1	6.6	7.1	7.9	8.8	5.9
Unknown age......	3.7	4.8	3.0	3.1	4.4	2.3

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[1] Excludes 38,430 RNs in 1957; 32,594 in 1962; 29,646 in 1966; 32,576 in 1972 and 93,417 in 1977 who did not report activity status.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 35.

American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Table 26-Age distribution of inactive registered nurses[1/] in the United States: selected years 1951-1977

Age	1951	1957	1962	1966	1972	1977
				Number		
Total........	221,576	231,834	282,819	285,791	316,611	323,483
Under 30.........	68,923	49,169	56,680	51,352	43,552	34,695
30-39............	80,851	86,482	98,577	91,800	91,910	87,964
40-44............	26,524	25,568	33,972	38,424	33,705	33,502
45-49............	13,896	22,413	23,962	25,363	32,204	28,568
50-59............	15,901	22,685	34,062	36,922	46,977	60,263
60 or over.......	9,220	15,199	24,875	31,212	54,951	70,403
Unknown age......	6,261	10,318	10,691	10,718	13,312	8,088
				Percent		
Total........	100.0	100.0	100.0	100.0	100.0	100.0
Under 30.........	31.1	21.2	20.0	17.9	13.8	10.7
30-39............	36.5	37.3	34.9	32.1	29.0	27.2
40-44............	12.0	11.0	12.0	13.5	10.7	10.4
45-49............	6.3	9.7	8.5	8.9	10.2	8.8
50-59............	7.2	9.8	12.0	12.9	14.8	18.6
60 or over.......	4.1	6.6	8.8	10.9	17.3	21.8
Unknown age......	2.8	4.4	3.8	3.8	[illegible].2	2.5

[1/] Excludes 38,430 RNs in 1957; 32,594 in 1962; 29,646 in 1966; 32,576 in 1972 and 93,417 in 1977 who did not report activity status.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 35.

American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Table 27-Median ages of active and inactive registered nurses, by region and State: selected years 1962-77

Region and State	Active registered nurses				Inactive registered nurses			
	1962	1966[1]	1972	1977	1962	1966[1]	1972	1977
United States	39.2	39.8	39.4	36.9	37.5	38.8	41.9	44.8
Northeast	38.8	39.3	39.1	37.3	36.9	38.0	41.7	45.4
North Central	39.2	38.5	38.1	36.2	37.3	37.5	39.5	42.6
South	38.9	40.2	39.8	36.5	37.4	38.9	42.2	44.6
West	40.1	41.8	41.8	38.1	39.4	42.2	45.1	47.1
Alabama	39.7	40.8	39.9	36.1	37.6	38.5	42.3	42.2
Alaska	37.2	37.3	36.6	34.7	37.0	38.9	38.6	39.2
Arizona	41.0	42.7	42.5	38.0	39.9	43.2	46.0	49.1
Arkansas	37.0	39.2	39.3	36.0	37.0	40.0	42.0	47.3
California	40.3	42.0	42.6	39.0	40.2	42.8	46.1	49.4
Colorado	36.9	38.5	36.7	34.5	36.9	39.0	39.6	40.8
Connecticut	39.2	39.7	39.9	38.2	37.9	35.4	38.2	40.9
Delaware	37.3	40.5	40.0	38.5	36.6	37.4	40.4	46.5
District of Columbia	41.6	39.2	37.0	34.8	41.8	43.6	50.7	52.3
Florida	41.3	43.3	43.2	39.6	40.7	44.2	49.4	50.7
Georgia	38.4	38.8	37.3	34.3	38.0	38.0	40.7	42.0
Hawaii	33.9	33.3	35.3	36.5	34.1	35.0	36.3	40.1
Idaho	39.1	42.2	44.2	39.6	37.8	40.7	45.5	44.3
Illinois	42.5	38.3	37.8	37.4	38.8	37.7	39.3	42.3
Indiana	38.4	39.4	39.6	37.0	36.8	38.3	39.4	42.4
Iowa	37.9	38.7	39.4	35.7	37.2	38.4	42.0	40.8
Kansas	37.2	38.9	39.7	36.4	36.4	38.8	41.7	42.8
Kentucky	38.3	37.1	37.4	33.5	38.1	38.8	41.8	44.0
Louisiana	38.2	41.3	41.8	37.4	35.8	38.4	41.2	43.0
Maine	42.2	43.6	44.6	38.4	39.8	42.2	46.9	47.8
Maryland	38.1	38.4	38.2	37.0	34.6	34.5	37.9	42.1
Massachusetts	37.2	37.9	37.1	36.7	35.9	37.3	41.7	45.8
Michigan	39.1	40.0	38.5	36.3	37.9	39.2	42.2	47.0
Minnesota	36.6	37.9	36.0	34.7	34.3	35.5	37.1	40.3
Mississippi	39.7	41.0	40.8	38.0	37.5	39.1	42.1	46.1
Missouri	37.1	36.5	36.7	34.5	36.5	37.0	38.9	41.1
Montana	38.8	41.4	42.5	40.2	36.1	38.6	41.2	42.6
Nebraska	36.8	37.3	36.5	33.2	37.2	38.1	40.9	42.7
Nevada	42.4	43.2	41.9	38.8	40.4	42.0	46.4	47.7
New Hampshire	41.3	42.1	42.0	36.5	37.3	38.3	41.3	44.2
New Jersey	39.4	39.7	40.8	39.0	36.3	37.2	40.1	44.5
New Mexico	40.2	42.0	42.8	37.9	37.4	41.4	47.1	48.6
New York	39.6	39.8	39.1	37.1	37.9	39.6	42.8	43.1
North Carolina	37.0	38.1	38.9	34.1	35.4	36.6	39.3	41.1
North Dakota	34.8	37.0	37.6	33.4	34.1	32.0	37.8	38.9
Ohio	39.7	38.0	38.1	36.1	36.4	35.6	37.5	41.7
Oklahoma	39.4	39.7	41.2	37.3	37.2	38.8	43.2	46.4
Oregon	41.8	42.7	43.2	37.1	40.1	42.3	45.2	43.0
Pennsylvania	37.3	38.0	38.5	36.9	36.1	36.9	41.8	47.1
Rhode Island	38.1	39.4	36.5	35.5	35.9	36.9	39.8	43.7
South Carolina	37.3	38.8	38.9	36.0	35.5	36.6	38.9	42.1
South Dakota	35.5	37.8	39.6	36.7	35.1	36.5	38.4	41.6
Tennessee	38.2	39.0	40.0	35.1	36.1	38.2	40.4	44.2
Texas	40.3	41.4	41.2	37.4	39.1	41.5	45.2	47.7
Utah	37.3	40.5	39.0	35.2	38.4	40.3	42.1	43.9
Vermont	42.6	43.1	41.7	37.8	38.3	40.0	43.3	43.9
Virginia	38.4	38.8	37.5	36.2	36.7	37.6	39.2	42.3
Washington	41.6	43.5	42.8	38.1	38.8	42.0	45.4	46.6
West Virginia	37.9	39.7	39.9	36.5	34.9	36.5	39.4	41.3
Wisconsin	37.3	39.1	39.0	36.5	36.3	37.4	39.8	42.3
Wyoming	39.1	42.0	42.7	38.3	36.6	39.2	40.5	40.0
Puerto Rico	....	....	....	....	....	....	....	....

[1] Recomputed from grouped data in 5-year age intervals with class boundaries the midpoints between the intervals.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing office, 1974 p. 36.

American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Table 28-Active and inactive registered nurses, by age group and sex: 1966, 1972, and 1977

Age group year	Active				Inactive			
	Total[1]	Female	Male	Not Reported	Total[1]	Female	Male	Not Reported
Total								
1966........	593,694	586,842	6,590	262	285,791	284,348	1,329	114
1972........	778,470	766,416	10,989	1,065	316,611	314,334	1,793	484
1977........	958,308	907,928	22,855	27,525	323,483	314,277	3,300	5,906
Under 25								
1966........	65,136	64,756	365	15	9,851	9,802	49	-
1972........	66,991	66,327	631	33	6,223	6,190	23	10
1977........	92,791	88,516	1,667	2,608	5,517	5,276	113	128
25-29								
1966........	85,911	84,968	926	17	41,501	41,363	132	6
1972........	126,869	124,904	1,906	59	37,329	37,147	167	15
1977........	177,311	165,928	6,059	5,324	29,178	28,025	511	642
30-34								
1966........	67,676	66,643	1,010	23	49,527	49,369	147	11
1972........	94,243	92,241	1,949	53	48,766	48,553	191	22
1977........	141,977	133,135	5,357	3,485	46,012	44,685	524	803
35-39								
1966........	64,181	63,102	1,059	20	42,273	42,118	143	12
1972........	84,937	83,408	1,488	41	43,144	42,940	184	20
1977........	115,850	110,182	3,028	2,640	41,952	40,872	352	728
40-44								
1966........	74,855	74,008	823	24	38,424	38,299	114	11
1972........	82,517	81,155	1,289	73	33,705	33,509	173	23
1977........	104,606	100,088	1,995	2,523	33,502	32,615	301	586
45-49								
1966........	64,425	63,640	753	32	25,363	25,184	167	12
1972........	91,609	90,460	1,055	94	32,204	32,018	147	39
1977........	92,654	88,806	1,637	2,211	22,568	21,862	259	447
50-54								
1966........	55,879	55,246	605	28	19,459	19,266	179	14
1972........	73,530	72,592	844	94	25,622	25,423	165	34
1977........	90,144	86,785	1,149	2,210	32,032	31,364	204	464
55-59								
1966........	50,158	49,718	425	15	17,463	17,327	130	6
1972........	54,900	54,132	686	82	21,355	21,114	217	24
1977........	63,902	61,717	798	1,387	28,231	27,639	252	340
60-64								
1966........	28,404	28,120	266	18	12,047	11,945	96	6
1972........	43,413	42,934	390	89	21,896	21,699	161	36
1977........	36,362	35,088	461	813	25,635	24,998	273	364
65 and over								
1966........	18,667	18,501	147	19	19,165	19,034	119	12
1972........	25,248	24,887	259	102	33,055	32,710	266	79
1977........	20,365	19,621	223	521	44,768	43,630	402	736
Age not reported								
1966........	18,402	18,140	211	51	10,718	10,641	53	24
1972........	34,213	33,376	492	345	13,312	13,031	99	182
1977........	22,346	18,062	481	3,803	8,088	7,311	109	668

[1] Excludes 29,646 RNs in 1966; 32,576 in 1972; and 93,417 in 1977 who did not report activity status.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. *Source Book - Nursing Personnel*. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 35.

American Nurses' Association. *1977 Inventory of Registered Nurses*. Kansas City, Missouri. The Association, unpublished data.

Table 29-Active and inactive licensed practical nurses, by age group and sex: 1967 and 1974

Age group year	Active				Inactive			
	Total1/	Female	Male	Not Reported	Total1/	Female	Male	Not Reported
Total								
1967.......	252,522	245,326	6,910	286	69,189	67,348	1,769	72
1974.......	377,889	365,373	11,407	1,109	113,689	110,033	2,834	822
Under 25								
1967.......	33,208	32,844	353	11	8,414	8,337	77	-
1974.......	54,394	53,071	1,281	42	10,409	10,190	202	17
25-29								
1967.......	23,671	22,975	682	14	10,263	10,060	202	1
1974.......	54,985	52,802	2,124	59	19,447	18,917	506	24
30-34								
1967.......	19,710	19,001	697	12	6,654	6,486	164	4
1974.......	41,437	39,886	1,489	62	15,621	15,255	331	35
35-39								
1967.......	23,491	22,583	897	11	5,599	5,411	187	1
1974.......	36,205	34,924	1,209	72	8,989	8,722	240	27
40-44								
1967.......	25,920	25,049	850	21	4,937	4,763	171	3
1974.......	36,956	35,693	1,167	96	7,584	7,325	224	35
45-49								
1967.......	29,085	28,182	874	29	5,553	5,340	209	4
1974.......	36,341	35,119	1,103	119	7,421	7,135	257	29
50-54								
1967.......	30,938	30,077	822	39	6,130	5,930	189	11
1974.......	35,149	34,046	984	119	7,864	7,583	242	39
55-59								
1967.......	[illegible]	[illegible]	711	40	5,969	5,814	145	10
1974.......	[illegible]	[illegible]	714	138	8,112	7,846	204	62
60-64								
1967.......	[illegible]	17,031	442	33	5,168	5,007	150	11
1974.......	[illegible]	21,048	470	112	8,588	8,306	192	90
65 and over								
1967.......	14,227	13,905	288	34	8,346	8,132	199	15
1974.......	14,336	13,971	243	122	13,668	13,187	274	207
Age not reported								
1967.......	7,911	7,575	294	42	2,156	2,068	76	12
1974.......	16,144	15,353	623	168	5,986	5,567	162	257

1/ Excludes 21,924 LPNs in 1967 and 41,881 LPNs in 1974 who did not report activity.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing,. LPNs 1967-an inventory of Licensed Practical Nurses. Washington: U.S. Government Printing Office, Issued 1971, pp. 17, 19.

Roth, Aleda V. and Schmittling, Gordon T. LPNs 1974 Inventory of Licensed Practical Nurses. Kansas City, Missouri, American Nurses' Association, 1977.

Table 30-Percentage distribution of registered nurses[1] by marital status and activity status
United States total: selected years 1951-77

Age	Total		Single		Married		Widowed, divorced, separated		Marital Status unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Active:										
1951........	333,268	100.0	128,959	38.7	155,041	46.5	32,174	9.7	17,094	5.1
1957........	464,138	100.0	145,966	31.4	256,100	55.2	45,419	9.8	16,653	3.6
1962[2]......	532,118	100.0	131,768	25.6	313,993	61.0	56,790	11.0	12,345	2.4
1966........	593,694	100.0	133,125	22.4	377,117	63.5	68,413	11.6	15,039	2.5
1972........	778,470	100.0	143,448	18.4	535,028	68.7	93,017	12.0	6,977	0.9
1977........	958,308	100.0	167,656	17.5	627,568	65.5	125,006	13.0	38,078	4.0
Inactive:										
1951........	221,576	100.0	15,049	6.8	190,342	85.9	7,517	3.4	8,668	3.9
1957........	231,834	100.0	13,756	5.9	199,810	86.2	10,595	4.6	7,673	3.3
1962[2]......	282,819	100.0	14,509	5.3	231,119	84.7	13,040	4.8	14,131	5.2
1966........	285,791	100.0	16,168	5.6	247,162	86.5	16,560	5.8	5,901	2.1
1972........	316,611	100.0	19,079	6.0	268,291	84.7	24,833	7.9	4,408	1.4
1977........	323,483	100.0	21,591	6.7	256,133	79.2	35,243	10.9	10,516	3.2

[1] Excludes 38,430 RNs in 1957; 32,594 in 1962; 29,646 in 1966; 32,576 in 1972 and 93,417 in 1977 who did not report activity status.
[2] Texas included in total only.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 39.

American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Table 31-Distribution of licensed practical nurses, by activity status and marital status: 1967 and 1974[1]

Year	Totals		Single		Married		Widowed or Separated		Unknown	
	No.	%	No.	%	No.	%	No.	%	No.	%
Total										
1967....	343,624	100.0	46,789	13.6	203,384	59.2	73,287	21.3	20,164	5.9
1974....	533,459	100.0	66,788	12.5	317,984	59.6	103,903	19.5	44,784	8.4
Active										
1967....	252,612	100.0	41,327	16.3	146,862	58.2	59,772	23.7	4,651	1.8
1974....	377,709	100.0	59,022	15.6	229,462	60.8	83,359	22.1	5,866	1.5
Inactive										
1967....	69,189	100.0	4,660	6.7	51,966	75.1	11,157	16.1	1,406	2.1
1974....	113,689	100.0	7,362	6.5	85,140	74.9	19,031	16.7	2,156	1.9

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[1] Excludes 21,924 LPNs in 1967 and 41,881 LPNs in 1974 who did not report activity.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing, LPNs 1967-An Inventory of Licensed Practical Nurses. Washington, U.S. Government Printing Office, Issued 1971, pp. 17, 19.

Roth, Aleda V. and Schmittling, Gordon T. LPNs 1974 Inventory of Licensed Practical Nurses. Kansas City, Missouri. American Nurses' Association, 1977.

Table 32-Estimated percent of married nurses among female professional nurses and registered nurses in practice, by region and State: selected years 1930-77

Region and State	Professional nurses1/					Registered nurses			
	1930	1940	1949	1951	1957	1962	1966	1972	1977
United States	17	25 2/	42	46	55	61	64	69	67 3/
Northeast	14	22	39	44	52	58	60	67	66
North Central	16	24	41	46	54	63	67	72	65 3/
South	19	29	45	49	59	62	65	69	66
West	26	34	45	49	58	61	64	67	64
Alabama	18	32	51	55	63	62	65	71	68
Alaska	..	..	37	39	54	59	63	72	67
Arizona	31	35	46	52	60	64	66	63	63
Arkansas	21	29	45	47	58	64	66	71	50
California	26	34	44	47	55	57	61	64	63
Colorado	25	32	41	45	53	61	61	64	62
Connecticut	14	22	43	47	61	66	65	71	72
Delaware	20	26	45	48	59	68	72	73	71
District of Columbia	25	28	38	42	48	49	49	54	53
Florida	27	33	45	50	60	62	60	66	59
Georgia	21	30	44	50	61	64	67	66	67
Hawaii	..	..	33	39	54	61	62	68	66
Idaho	28	36	54	59	71	74	77	79	75
Illinois	15	21	40	45	54	63	74	69	69
Indiana	17	28	47	53	62	69	70	76	72
Iowa	14	25	45	49	63	63	73	78	76
Kansas	16	21	44	49	61	66	71	75	72
Kentucky	15	27	41	48	57	62	63	68	67
Louisiana	19	27	43	47	58	62	63	68	66
Maine	21	27	44	51	58	66	66	72	70
Maryland	13	23	34	38	52	62	64	70	68
Massachusetts	13	16	38	42	52	55	57	65	64
Michigan	21	30	45	50	38	64	67	72	70
Minnesota	11	18	34	41	52	62	66	72	.. 3/
Mississippi	20	29	52	51	67	63	68	71	71
Missouri	15	22	39	42	54	57	65	69	67
Montana	19	26	46	55	64	71	74	78	75
Nebraska	15	26	43	44	57	67	70	74	73
Nevada	30	40	52	56	59	68	69	70	65
New Hampshire	18	24	47	54	62	67	68	71	68
New Jersey	16	23	42	48	57	65	66	71	70
New Mexico	21	29	46	52	61	57	64	67	63
New York	15	25	37	42	47	51	54	62	63
North Carolina	16	30	45	51	65	69	70	73	69
North Dakota	10	17	33	38	55	67	70	77	72
Ohio	16	26	41	45	60	62	66	71	70
Oklahoma	20	31	50	50	55	62	69	70	69
Oregon	27	34	48	52	63	68	70	73	65
Pennsylvania	11	18	40	45	55	62	64	69	68
Rhode Island	13	16	38	46	57	61	63	70	70
South Carolina	16	26	49	53	63	67	70	73	72
South Dakota	16	21	39	40	55	66	71	77	74
Tennessee	19	30	46	50	55	62	66	66	67
Texas	23	31	49	52	61	..	61	69	65
Utah	29	37	55	62	65	67	71	72	65
Vermont	18	24	43	47	59	63	66	69	69
Virginia	18	31	43	48	59	68	71	74	72
Washington	24	30	48	55	65	67	69	72	68
West Virginia	16	31	47	50	60	65	66	71	69
Wisconsin	11	20	38	46	54	66	70	74	71
Wyoming	33	35	48	57	67	73	77	77	74
Puerto Rico	..	..	..	45	41	..	..	..	..

1/ Includes married with husband absent (U.S. Census).
2/ Includes 4 percent married with husband absent (U.S. Census).
3/ Data not available for state of Minnesota.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 40.

American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Table 33-Percent of married nurses among inactive registered nurses, by region and State: selected years 1951-77

Region and State	1951	1957	1962	1966	1972	1977
United States	86	86	85	86	85	79 1/
Northeast	86	86	86	87	84	79
North Central	86	85	85	89	87	78 1/
South	86	87	84	85	84	79
West	85	87	83	85	83	78
Alabama	84	87	79	82	84	80
Alaska	94	90	89	92	91	84
Arizona	81	86	83	84	81	77
Arkansas	88	87	81	83	86	66
California	83	86	82	84	81	77
Colorado	85	86	84	86	85	81
Connecticut	86	88	86	88	86	84
Delaware	90	92	92	92	90	82
District of Columbia	73	77	70	69	61	55
Florida	82	83	81	79	80	75
Georgia	87	89	88	88	78	81
Hawaii	85	83	87	87	86	81
Idaho	90	92	90	90	86	85
Illinois	87	90	87	88	88	84
Indiana	89	91	89	91	89	84
Iowa	87	91	85	90	88	87
Kansas	89	85	82	89	86	84
Kentucky	86	88	86	86	85	78
Louisiana	86	83	79	87	85	80
Maine	85	86	84	83	82	81
Maryland	88	91	90	91	89	83
Massachusetts	84	87	82	82	83	76
Michigan	86	68	76	87	86	81
Minnesota	81	88	88	88	88	.. 1/
Mississippi	85	85	79	81	84	79
Missouri	84	83	82	85	85	83
Montana	89	92	89	88	86	84
Nebraska	82	90	89	88	85	83
Nevada	88	86	87	90	84	81
New Hampshire	84	88	87	87	85	80
New Jersey	89	88	87	89	87	82
New Mexico	88	91	71	88	84	78
New York	85	78	82	85	82	79
North Carolina	82	89	88	88	87	77
North Dakota	86	89	89	90	87	84
Ohio	86	86	90	91	89	84
Oklahoma	87	91	75	85	85	77
Oregon	85	89	75	87	83	75
Pennsylvania	88	90	90	89	86	80
Rhode Island	87	89	86	88	86	79
South Carolina	86	90	85	88	86	81
South Dakota	87	87	88	89	90	84
Tennessee	84	77	81	88	83	82
Texas	89	91	..	79	84	79
Utah	91	92	88	88	85	84
Vermont	86	89	85	86	83	79
Virginia	88	87	89	90	89	84
Washington	88	90	88	87	85	81
West Virginia	88	90	84	86	84	82
Wisconsin	83	88	86	88	86	83
Wyoming	92	90	89	91	90	88
Puerto Rico	76	..	..	..	..	..

1/ Data not available for the state of Minnesota.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 42.

American Nurses' Association. 1977 Inventory of Registered Nurses, Kansas City, Missouri. The Association, unpublished data.

Table 34-Estimated number of registered nurses by employment status, sex and racial/ethnic background, September 1977

Sex and racial/ethnic background	Total		Employment status			
			Employed in nursing		Not employed nursing	
	Number	Percent	Number	Percent	Number	Percent
Total	1,401,633	100.0	978,234	100.0	423,400	100.0
White	1,293,922	92.3	890,719	91.1	403,203	95.2
Black	35,476	2.5	30,170	3.1	5,307	1.3
Hispanic	19,652	1.4	16,340	1.7	3,312	0.8
Other	32,258	2.3	26,178	2.7	6,080	1.5
Not reported	20,325	1.5	14,826	1.5	5,499	1.3
Female	1,374,238	98.0	957,013	97.8	417,225	98.5
White	1,269,950	90.6	872,162	89.2	397,788	94.0
Black	34,402	2.5	29,326	3.0	5,076	1.2
Hispanic	18,686	1.3	15,500	1.6	3,186	0.8
Other	31,683	2.3	25,835	2.6	5,848	1.4
Not reported	19,517	1.4	14,190	1.5	5,327	1.3
Male	26,991	1.9	20,852	2.1	6,139	1.4
White	23,972	1.7	18,558	1.9	5,415	1.3
Black	1,074	0.1	844	0.1	231	0.0
Hispanic	966	0.1	840	0.1	126	0.0
Other	575	0.0	343	0.0	231	0.0
Not reported	404	0.0	267	0.0	136	0.0
Not reported	404	0.0	368	0.0	36	0.0

SOURCE: Roth, Aleda et al., 1977 National Sample Survey of Registered Nurses, National Technical Information Service, Springfield, Va. 1979.

Table 35-Distribution of registered nurses according to age, employment status, and the presence of children in the home: September 1977

employment status and presence of children in the home	Total		Under 25 years		25-29 years		30-34 years		35-39 years		40-44 years	
	No.	%	No.	%	No.	%	No.	%	No.	%.	No.	%
Total	1,401,633	100.0	87,329	100.0	225,504	100.0	199,403	100.0	178,247	100.0	159,467	100.0
Employed in nursing	978,234	69.8	81,295	93.1	186,736	82.8	140,988	70.7	125,054	70.2	117,000	73.4
Not employed in nursing	423,400	30.2	6,034	6.9	38,768	17.2	58,416	29.3	53,193	29.8	42,467	26.6
but seeking employment	42,028	3.0	1,310	1.5	6,509	2.9	7,671	3.8	8,617	4.8	4,990	3.1
not seeking but employed elsewhere	56,870	4.1	404	0.5	3,571	1.6	7,918	4.0	8,385	4.7	7,970	5.0
not seeking and not employed	324,000	23.1	4,320	4.9	28,658	12.7	42,826	21.5	36,191	20.3	29,507	18.5
with children less than 6	43,320	3.1	2,566	2.9	20,182	9.0	16,476	8.3	3,208	1.8	454	0.3
with children 6 to 17	120,311	8.6	65	0.1	3,560	1.6	23,948	12.0	31,603	17.7	26,887	16.9
no children	158,173	11.3	1,689	1.9	4,815	2.1	2,401	1.2	1,095	0.6	1,973	1.2
not reported	2,195	0.2	--	--	101	0.0	--	--	285	0.2	194	0.1
Information on employment status and/or reason for nonemployment not available	497	0.0	--	--	29	0.0	--	--	--	--	--	--

	45-49 years		50-54 years		55-59 years		60-64 years		65+ years		Not reported	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Total	132,496	100.0	144,265	100.0	104,098	100.0	75,960	100.0	81,180	100.0	13,682	100.0
Employed in nursing	95,036	71.7	103,184	71.5	68,140	65.5	35,557	46.8	15,706	19.3	9,537	69.7
Not employed in nursing	37,460	28.3	41,081	28.5	35,957	34.5	40,403	53.2	65,474	80.7	4,146	30.3
but seeking employment	4,838	3.7	3,747	2.6	1,842	1.8	1,502	2.0	644	0.8	359	2.6
not seeking but employed elsewhere	8,338	6.3	7,411	5.1	6,125	5.9	4,037	5.3	2,360	2.9	351	2.6
not seeking and not employed	24,156	18.2	29,923	20.7	27,931	26.8	34,864	45.9	62,420	76.9	3,204	23.4
with children less than 6	--	--	--	--	--	--	--	--	68	0.1	366	2.7
with children 6 to 17	17,113	12.9	10,969	7.6	4,379	4.2	287	0.4	758	0.9	743	5.4
no children	7,043	5.3	18,933	13.1	23,486	22.6	34,319	45.2	61,223	75.4	1,195	8.7
not reported	--	--	21	0.0	65	0.1	258	0.3	371	0.5	900	6.6
Information on employment status and/or reason for nonemployment not available	127	0.1	--	--	60	0.1	--	--	50	0.1	231	1.7

SOURCE: Roth, Aleda et al., 1977 National Sample Survey of Registered Nurses, National Technical Information Service, Springfield, Va. 1979.

Table 36-Total experienced civilian labor force of registered nurses in the 1970 Census
by basic preparation for practice and race
(in thousands)

Preparation	Total		White		Other Races	
	Number	Percent	Number	Percent	Number	Percent
Total experienced civilian labor force in category "registered nurse" in 1970 Census.............	841	100.0	762	90.6	79	9.4
Total with RN license in April 1970*............................	655	100.0	620	94.7	34	5.2
Graduate of registered nurse program.......................	653	100.0	619	94.8	34	5.2
By April 1970..............	650	100.0	616	94.8	34	5.2
After April 1970...........	3	100.0	3	100.0	—	--
Not graduate of registered nurse program.................	2	100.0	1	50.0	—	--
Total with no RN license in April 1970..............................	186	100.0	141	75.8	44	23.7
Graduate of registered nurse program.......................	16	100.0	14	87.5	3	18.7
By April 1970..............	8	100.0	6	75.0	2	25.0
After April 1970...........	8	100.0	8	100.0	—	--
Not graduate of registered nurse program.................	169	100.0	127	75.1	42	24.8
Graduate of other health occupation program..................	96	100.0	70	72.9	27	28.1
Graduate of prac. or voc. school........................	64	100.0	47	73.4	17	26.6
Not graduate of other health occupation program............	73	100.0	58	79.4	15	20.5

NOTES: Items may not add to total due to independent rounding.
Category with (*) most closely relates to appropriate member of "registered nurse" category.

SOURCE: Special post 1970 census study conducted by the Bureau of the Census for the Division of Nursing, BHM, HRA, DHEW. December 1974.

Table 37-Total experienced civilian labor force of registered nurses in the 1970 Census by basic preparation for practice and sex (in thousands)

Preparation	Total		Male		Female	
	Number	Percent	Number	Percent	Number	Percent
Total experienced civilian labor force in category "registered nurse" in 1970 Census.............	841	100.0	23	2.7	819	97.3
Total with RN license in April 1970*............................	655	100.0	11	1.7	644	98.3
Graduate of registered nurse program.......................	653	100.0	11	1.7	642	98.3
By April 1970..............	650	100.0	11	1.7	639	98.3
After April 1970...........	3	100.0	--	--	3	100.0
Not graduate of registered nurse program.................	2	100.0	--	--	2	100.0
Total with no RN license in April 1970............................	186	100.0	11	5.9	175	94.1
Graduate of registered nurse program.......................	16	100.0	2	12.5	14	87.5
By April 1970..............	8	100.0	--	--	8	100.0
After April 1970...........	8	100.0	2	25.0	6	75.0
Not graduate of registered nurse program.................	169	100.0	9	5.3	160	94.7
Graduate of other health occupation program..................	96	100.0	3	3.1	93	96.9
Graduate of prac. or voc. school........................	64	100.0	--	--	64	100.0
Not graduate of other health occupation program............	73	100.0	6	8.2	67	91.8

NOTES: Items may not add to total due to independent rounding.
Category with (*) most closely relates to appropriate member of "registered nurse" category.

SOURCE: Special post 1970 census study conducted by the Bureau of the Census for the Division of Nursing, BHM, HRA, DHEW. December 1974.

Table 38 Work status of married women with no children and married women with children five years after graduation by year of entrance and type of program: 1962 and 1967[1/]

Work Status	Associate Degree				Diploma				Baccalaureate			
	1962		1967		1962		1967		1962		1967	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Married women with no children:												
Full-time nursing	116	67.8	402	77.3	445	71.1	518	79.9	269	73.3	513	79.2
Part-time nursing	32	18.7	74	14.2	84	13.4	81	12.5	29	7.9	75	11.6
Not working	23	13.5	44	8.5	97	15.5	49	7.6	69	18.8	60	9.2
Total	171	100.0	520	100.0	626	100.0	648	100.0	367	100.0	648	100.0
Married women with children:												
Full-time nursing	189	33.4	597	42.8	313	17.7	335	30.3	162	18.8	250	29.7
Part-time nursing	175	31.0	444	31.8	615	34.8	439	39.7	198	22.9	273	32.4
Not working	201	35.6	355	25.4	840	47.5	332	30.0	503	58.3	319	37.9
Total	565	100.0	1,396	100.0	1,768	100.0	1,106	100.0	863	100.0	842	100.0

[1/] Excludes men and responses to variables other than above.

SOURCE: Knopf, Lucille and Vaughn, John, D. Work-Life Behavior of Registered Nurses: A Report of the Nurse Career Pattern Study. New York, National League for Nursing, 1979.

Table 39-Work status of single, formerly married, and married women five years after graduation by year of entrance and type of program: 1962 and 1967[1/]

Work Status	Associate Degree				Diploma				Baccalaureate			
	1962		1967		1962		1967		1962		1967	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Single and formerly married:												
Full-time nursing	205	84.7	584	87.4	593	88.0	521	88.6	311	88.9	463	84.5
Part-time nursing	26	10.7	57	8.5	54	8.0	50	8.5	14	4.0	35	6.4
Not working	11	4.6	27	4.1	27	4.0	17	2.9	25	7.1	50	9.1
Total	242	100.0	668	100.0	674	100.0	588	100.0	350	100.0	548	100.0
Married:												
Full-time nursing	333	42.5	1,029	52.3	812	32.3	879	48.8	448	35.9	794	51.4
Part-time nursing	217	27.7	532	27.0	727	29.0	528	29.3	227	18.1	360	23.2
Not working	233	29.8	408	20.7	972	38.7	394	21.9	574	46.0	392	25.4
Total	783	100.0	1,969	100.0	2,511	100.0	1,801	100.0	1,249	100.0	1,546	100.0

[1/] Excludes men and responses to variables other than above.

SOURCE: Knopf, Lucille and Vaughn, John, D. Work-Life Behavior of Registered Nurses: A Report of the Nurse Career Pattern Study. New York, National League for Nursing, 1979.

Table 40-Active registered nurses by field of practice, region and State: 1949

Region and State	Total	Hospital	Public Health[1]	Occupational Health	Nursing education	Private duty	Office	Other	Unclassified
United States	299,067	141,266	28,487	13,056	12,036	64,915	26,381	1,368	11,558
Northeast	103,206	46,580	11,254	4,763	3,992	26,551	5,896	474	3,696
North Central	83,847	41,543	6,933	4,870	3,880	15,338	7,435	340	3,508
South	59,422	27,281	5,688	1,965	2,489	13,846	5,776	320	2,057
West	52,592	25,862	4,612	1,458	1,675	9,180	7,274	234	2,297
Alabama	2,886	1,374	283	147	104	473	297	20	188
Alaska	471	256	92	18	—	45	40	2	18
Arizona	1,291	562	121	35	37	325	156	17	38
Arkansas	964	470	112	14	30	192	98	4	44
California	32,707	15,601	3,009	981	851	5,822	4,808	131	1,504
Colorado	3,210	1,730	244	61	157	584	286	19	129
Connecticut	5,569	2,651	607	290	211	1,370	328	17	95
Delaware	967	409	113	62	44	229	96	3	11
District of Columbia	3,328	1,697	396	106	97	656	263	37	76
Florida	4,399	1,807	330	80	107	1,368	548	18	141
Georgia	3,522	1,578	511	144	120	768	278	28	95
Hawaii	1,095	635	131	59	30	110	91	3	36
Idaho	1,002	481	89	8	58	159	179	3	25
Illinois	21,542	10,362	1,680	1,400	1,034	4,351	1,939	65	711
Indiana	5,706	2,511	485	405	211	1,204	708	11	171
Iowa	4,022	1,935	257	80	206	816	475	20	233
Kansas	3,521	1,743	239	67	197	697	384	21	173
Kentucky	2,689	1,396	315	78	83	527	196	16	78
Louisiana	3,879	1,877	322	97	163	877	333	16	194
Maine	2,061	882	177	56	72	672	130	6	66
Maryland	4,580	2,304	572	110	275	1,017	156	18	128
Massachusetts	14,726	6,730	1,561	663	677	3,829	751	44	471
Michigan	12,047	6,299	1,009	859	439	1,524	1,314	63	540
Minnesota	5,789	3,207	480	116	319	990	347	35	295
Mississippi	1,538	701	198	26	59	332	155	5	62
Missouri	5,134	2,423	467	241	221	1,124	406	26	226
Montana	1,201	635	75	10	84	223	132	8	34
Nebraska	1,956	964	139	39	112	371	215	12	104
Nevada	305	157	18	5	—	74	40	1	10
New Hampshire	1,460	642	121	45	61	434	80	2	75
New Jersey	9,235	3,639	1,358	554	387	2,235	720	37	305
New Mexico	820	410	130	10	13	144	95	3	15
New York	44,163	21,242	4,593	1,811	1,501	10,732	2,208	221	1,855
North Carolina	4,855	2,360	418	102	267	1,087	481	19	121
North Dakota	828	447	63	—	67	121	73	7	50
Ohio	15,951	7,704	1,468	1,244	768	3,110	1,036	47	574
Oklahoma	2,127	906	194	47	89	500	289	13	89
Oregon	3,478	1,617	191	73	133	706	536	17	205
Pennsylvania	23,252	9,440	2,534	1,256	976	6,627	1,535	140	744
Rhode Island	1,517	816	188	68	57	250	94	3	41
South Carolina	2,133	868	220	102	66	561	245	11	60
South Dakota	985	536	60	5	65	151	118	1	49
Tennessee	3,151	1,503	340	183	155	570	280	10	110
Texas	11,129	4,852	746	311	467	2,827	1,436	78	412
Utah	1,238	656	134	37	92	129	134	3	53
Vermont	1,223	538	115	20	50	402	50	4	44
Virginia	4,521	2,053	420	163	217	1,184	339	18	127
Washington	5,233	2,805	340	152	219	785	717	26	189
West Virginia	2,754	1,126	198	193	146	678	286	6	121
Wisconsin	6,366	3,412	586	414	241	879	420	32	382
Wyoming	541	317	38	9	1	74	60	1	41

[1] Includes school nurse.

SOURCE: American Nurses' Association. Inventory of Professional Registered Nurses, 1949. New York, The Association. p. 19.

Table 41-Active registered nurses by field of practice, region and State: 1957

Region and State	Total	Hospital	Public Health[1]	Occupational Health	Nursing education	Private duty	Office	Other	Unknown
United States	464,138	275,047	33,145	17,538	13,679	69,530	36,929	4,892	13,378
Northeast	161,679	90,657	12,115	6,189	4,651	30,177	7,950	2,375	7,565
North Central	130,042	82,334	7,747	6,293	4,540	15,282	11,367	833	1,646
South	100,055	58,203	7,453	3,093	2,926	16,371	8,505	959	2,545
West	77,362	43,853	5,830	1,963	1,562	7,700	9,107	725	1,622
Alabama	4,482	2,888	260	202	123	515	376	61	57
Alaska	357	221	49	3	7	20	46	4	7
Arizona	3,429	2,001	392	44	58	454	402	51	27
Arkansas	2,200	1,446	152	36	76	222	198	21	49
California	37,469	21,420	3,405	1,315	768	4,311	5,039	282	929
Colorado	6,071	3,937	389	98	171	772	523	85	96
Connecticut	13,762	7,656	1,059	629	307	2,830	716	143	422
Delaware	1,587	954	141	75	43	241	125	6	2
District of Columbia ..	3,734	1,949	329	125	103	559	246	183	240
Florida	11,766	7,090	560	176	195	2,279	1,137	74	255
Georgia	6,360	3,588	677	255	173	1,066	505	54	42
Hawaii	1,893	1,279	153	73	32	131	166	48	11
Idaho	1,498	882	95	26	39	145	241	18	52
Illinois	24,024	14,138	1,538	1,387	985	3,423	2,221	144	188
Indiana	10,593	6,196	615	660	248	1,482	1,253	58	81
Iowa	8,034	4,919	384	147	322	911	849	46	456
Kansas	5,833	3,771	309	154	230	610	598	30	131
Kentucky	4,181	2,485	324	158	104	444	268	86	312
Louisiana	6,154	3,485	322	151	164	1,044	496	53	439
Maine	3,059	1,856	171	88	69	624	183	16	52
Maryland	7,538	4,710	707	208	319	1,282	220	44	48
Massachusetts	16,801	9,645	1,298	593	604	2,735	721	767	438
Michigan	17,572	11,246	1,068	1,162	508	1,684	1,708	148	48
Minnesota	11,906	8,651	636	235	349	1,262	634	51	88
Mississippi	3,135	1,839	271	71	56	476	340	23	59
Missouri	8,841	5,611	609	351	367	990	668	41	204
Montana	2,314	1,528	85	7	83	324	269	8	10
Nebraska	4,289	3,057	183	60	138	437	366	28	20
Nevada	656	376	49	7	6	73	83	4	58
New Hampshire	2,922	1,762	223	62	99	627	136	10	3
New Jersey	16,771	9,217	2,792	826	380	3,057	1,131	163	205
New Mexico	1,962	1,282	220	36	27	154	210	17	16
New York	63,996	36,309	4,230	2,168	1,810	10,713	2,417	1,108	5,241
North Carolina	9,392	5,728	587	209	215	1,592	916	43	102
North Dakota	1,890	1,345	82	5	96	137	164	42	19
Ohio	24,137	14,583	1,525	1,554	795	3,260	2,043	162	215
Oklahoma	3,360	1,973	334	79	174	412	315	20	53
Oregon	5,360	3,466	294	99	99	580	749	29	44
Pennsylvania	39,645	21,055	2,963	1,698	1,238	8,896	2,474	135	1,186
Rhode Island	3,268	2,276	272	101	89	359	125	31	15
South Carolina	4,342	2,266	337	175	176	834	471	46	37
South Dakota	1,559	893	94	4	111	139	170	12	136
Tennessee	5,065	2,898	348	257	200	734	328	25	275
Texas	14,261	7,729	1,301	441	401	2,346	1,564	136	343
Utah	1,841	1,268	145	40	78	88	143	56	23
Vermont	1,455	881	107	24	55	336	47	2	3
Virginia	8,239	4,563	609	262	274	1,574	694	60	203
Washington	8,528	5,508	505	203	177	567	1,111	112	345
West Virginia	4,259	2,612	194	213	130	751	306	24	29
Wisconsin	11,364	7,924	704	574	391	947	693	71	60
Wyoming	984	685	49	12	17	81	125	11	4

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[1] Includes school nurse.

SOURCE: American Nurses' Association. Research and Statistics Unit. Report of 1956-1958 Inventory of Professional Registered Nurses. New York, The Association, 1963, p. 12.

Table 42-Active registered nurses by field of practice, region and State: 1962

Region and State	Total	Hospital	Public Health[1]	Occupational Health	Nursing education	Private duty	Office	Other	Unknown
United States	532,118	335,404	40,687	17,569	16,294	64,155	43,558	2,496	11,955
Northeast	174,299	105,623	14,575	6,025	5,647	28,050	9,411	834	4,134
North Central	148,932	99,693	9,655	5,985	5,009	12,866	12,896	542	2,286
South	115,544	70,419	8,875	3,347	3,683	15,683	9,702	744	3,091
West	93,343	59,669	7,582	2,212	1,955	7,556	11,549	376	2,444
Alabama	5,047	3,085	328	201	180	464	325	17	447
Alaska	683	437	109	5	3	26	94	2	7
Arizona	4,896	2,984	564	55	119	495	568	84	27
Arkansas	2,194	1,493	156	31	93	193	189	12	27
California............	52,151	32,261	4,505	1,507	938	4,526	6,448	111	1,875
Colorado..............	6,825	4,754	491	126	174	521	678	41	40
Connecticut...........	11,365	6,474	987	477	323	2,230	727	32	115
Delaware..............	1,775	1,022	206	70	52	238	168	3	16
District of Columbia..	4,000	2,295	370	188	122	711	224	46	44
Florida...............	14,109	8,462	805	230	234	2,491	1,383	185	319
Georgia...............	7,816	4,369	706	232	242	1,178	594	219	276
Hawaii................	1,974	1,301	127	62	43	172	241	4	24
Idaho.................	1,913	1,298	122	28	38	135	269	15	8
Illinois..............	28,890	17,864	2,333	1,558	918	3,166	2,639	112	300
Indiana...............	11,223	6,880	699	619	314	1,194	1,381	24	112
Iowa..................	8,555	5,214	446	142	333	745	903	26	746
Kansas................	6,208	4,061	396	106	237	461	668	10	269
Kentucky..............	5,317	3,728	432	175	202	391	314	18	57
Louisiana.............	6,594	4,124	360	161	205	984	553	14	193
Maine.................	3,462	2,104	202	91	82	602	228	16	137
Maryland..............	7,779	4,856	819	248	325	962	423	34	112
Massachusetts.........	21,928	14,351	1,589	664	873	3,123	915	139	274
Michigan..............	20,433	14,157	1,383	964	598	1,234	1,872	77	148
Minnesota.............	13,192	9,790	751	226	454	1,100	701	21	149
Mississippi...........	3,141	1,950	290	68	80	389	300	5	59
Missouri..............	9,151	6,170	643	327	397	703	689	27	195
Montana...............	2,412	1,576	115	5	87	265	288	5	71
Nebraska..............	4,587	3,273	195	72	200	356	412	18	61
Nevada................	888	578	77	11	17	69	112	2	22
New Hampshire.........	2,947	1,867	236	65	103	422	211	27	16
New Jersey............	21,860	12,770	2,438	899	567	3,363	1,612	63	148
New Mexico............	2,080	1,273	225	63	36	168	228	15	72
New York..............	67,199	40,621	5,547	2,266	2,146	10,746	2,951	415	2,507
North Carolina........	10,793	6,874	689	246	420	1,347	1,071	11	135
North Dakota..........	2,138	1,572	86	1	112	163	175	3	26
Ohio..................	29,381	19,654	1,770	1,422	933	2,831	2,420	163	188
Oklahoma..............	3,948	2,460	312	91	125	434	384	8	134
Oregon................	6,209	4,156	361	82	135	522	874	60	19
Pennsylvania..........	40,497	24,012	3,151	1,447	1,360	6,933	2,585	125	884
Rhode Island..........	3,381	2,381	290	90	131	329	118	11	31
South Carolina........	5,184	2,986	369	185	162	799	560	21	102
South Dakota..........	1,896	1,261	96	5	132	135	205	5	57
Tennessee.............	6,324	4,031	453	259	259	790	395	21	116
Texas.................	17,222	9,979	1,560	478	484	2,175	1,711	84	751
Utah..................	2,222	1,561	181	69	90	95	206	3	17
Vermont...............	1,660	1,043	135	26	62	302	64	6	22
Virginia..............	9,886	5,695	802	285	356	1,619	820	41	268
Washington............	10,024	6,799	636	183	251	495	1,396	30	234
West Virginia.........	4,415	3,010	218	199	142	518	288	5	35
Wisconsin.............	13,278	9,797	857	543	381	778	831	56	35
Wyoming...............	1,066	711	69	16	24	67	147	4	28

[1] Includes school nurse.

SOURCE: Marshall, Eleanor D. and Moses, Evelyn B. The Nation's Nurses. Inventory of Professional Registered Nurses. New York. The Association, 1965, p. 29.

Table 43-Active registered nurses by field of practice, region and State: 1966

Region and State	Total	Hospital	Public Health[1]	Occupational Health	Nursing education	Private duty	Office	Other field	Field not reported
United States	593,694	387,847	46,349	18,155	20,818	57,193	47,628	1,885	13,819
Northeast	193,580	119,816	16,381	5,959	7,297	26,438	10,302	591	6,796
North Central	164,443	114,789	10,325	6,241	6,232	10,153	14,498	450	1,755
South	131,987	84,075	10,722	3,697	4,589	14,260	10,712	493	3,439
West	103,684	69,167	8,921	2,258	2,700	6,342	12,116	351	1,829
Alabama	5,685	3,754	349	219	232	398	364	7	362
Alaska	581	398	92	4	3	11	60	5	8
Arizona	5,775	3,677	670	83	156	406	621	122	40
Arkansas	2,569	1,823	229	51	90	154	198	7	17
California	57,537	37,168	5,367	1,539	1,386	3,922	6,679	123	1,353
Colorado	8,208	6,081	578	139	218	420	708	23	41
Connecticut	14,973	9,083	1,267	491	402	2,664	817	87	162
Delaware	2,043	1,162	243	94	76	255	193	7	13
District of Columbia	3,604	2,182	328	192	150	504	175	36	37
Florida	21,037	12,544	1,156	319	405	3,328	1,972	207	1,076
Georgia	6,851	4,121	720	233	298	844	545	21	69
Hawaii	2,193	1,558	156	45	48	131	236	4	15
Idaho	1,946	1,382	114	24	47	93	266	8	12
Illinois	33,331	22,480	2,111	1,417	1,263	2,516	2,897	50	597
Indiana	12,307	7,875	828	654	442	819	1,498	19	172
Iowa	9,956	6,984	624	162	417	666	1,055	14	34
Kansas	6,558	4,680	437	97	243	319	731	7	44
Kentucky	6,130	4,524	492	187	271	280	326	10	40
Louisiana	6,598	4,450	375	177	255	694	548	16	83
Maine	3,963	2,672	261	87	87	532	238	16	70
Maryland	9,840	6,315	1,094	302	408	995	597	39	90
Massachusetts	25,729	17,219	2,009	628	1,188	3,250	1,063	68	304
Michigan	22,005	15,423	1,373	1,129	768	945	1,865	52	450
Minnesota	14,184	10,859	800	233	307	884	727	33	141
Mississippi	3,553	2,068	290	74	112	327	309	8	365
Missouri	11,021	7,617	935	412	525	530	852	25	125
Montana	2,471	1,672	132	5	81	249	300	6	26
Nebraska	4,674	3,478	200	67	225	253	415	9	27
Nevada	1,052	644	121	24	24	69	136	3	11
New Hampshire	3,381	2,227	291	66	129	413	217	22	16
New Jersey	24,283	14,943	2,606	883	786	2,875	1,769	53	368
New Mexico	2,482	1,615	332	46	60	132	266	10	21
New York	72,456	42,878	6,138	2,261	2,651	9,796	3,253	249	5,230
North Carolina	12,038	7,904	810	245	477	1,257	1,161	32	152
North Dakota	2,095	1,586	87	4	108	123	161	2	24
Ohio	32,239	22,065	1,908	1,513	1,143	2,238	3,107	210	55
Oklahoma	4,435	3,055	387	62	128	330	394	11	68
Oregon	6,647	4,596	402	106	191	349	951	13	41
Pennsylvania	43,382	26,993	3,349	1,423	1,832	6,334	2,768	78	605
Rhode Island	3,617	2,559	319	96	150	355	105	6	27
South Carolina	5,367	3,264	366	216	151	694	586	7	83
South Dakota	2,055	1,433	118	6	141	111	207	3	36
Tennessee	6,628	4,380	545	307	291	631	352	13	109
Texas	19,491	12,028	1,996	501	644	1,758	1,733	46	785
Utah	2,329	1,666	179	41	116	75	211	8	33
Vermont	1,796	1,242	141	26	72	219	72	12	14
Virginia	11,461	7,173	1,065	325	419	1,425	970	19	65
Washington	11,259	7,860	687	192	342	426	1,507	26	219
West Virginia	4,687	3,328	277	193	182	386	289	7	25
Wisconsin	14,018	10,309	904	547	450	749	983	26	50
Wyoming	1,204	850	91	12	28	59	155	—	9

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[1] Includes school nurses.

SOURCE: American Nurses' Association. Research and Statistics Unit. Report of 1966 Inventory of Registered Nurses. New York, The Association, 1968.

Table 44-Active registered nurses by field of practice, region and State: 1972

Region and State	Total	Hospital	Nursing home	Public Health1/	Occupational Health	Nursing education	Private duty	Office	Other field	Field not reported
United States	778,470	499,594	53,988	68,945	19,403	28,820	38,923	52,390	4,086	12,321
Northeast	248,779	151,285	20,553	24,950	6,075	9,522	18,958	12,357	1,031	4,048
North Central	215,198	142,485	16,161	15,137	6,439	8,322	5,810	15,784	1,303	3,757
South	184,973	120,644	8,844	17,338	4,652	7,126	10,263	12,265	1,144	2,697
West	129,520	85,180	8,430	11,520	2,237	3,850	3,892	11,984	608	1,819
Alabama	7,753	5,397	312	582	239	352	223	400	58	190
Alaska	1,373	818	66	219	9	18	9	193	6	35
Arizona	7,418	4,897	319	879	100	259	255	564	112	33
Arkansas	3,757	2,532	248	375	61	168	93	202	[illegible]	68
California	68,118	45,143	3,774	6,153	1,449	1,921	2,503	5,682	304	1,009
Colorado	11,634	7,809	1,042	980	177	335	275	831	60	125
Connecticut	17,567	9,031	2,677	1,701	463	491	1,910	901	247	146
Delaware	2,886	1,567	217	372	105	149	172	257	13	34
District of Columbia	4,968	3,197	79	483	238	207	441	167	44	112
Florida	25,498	16,358	1,696	1,616	477	587	2,283	1,937	91	453
Georgia	12,353	7,814	589	1,165	338	484	738	811	256	158
Hawaii	3,074	2,060	144	238	39	59	96	372	12	54
Idaho	2,504	1,701	188	184	29	77	40	265	10	10
Illinois	44,223	29,499	2,739	3,246	1,570	1,522	1,522	3,510	128	487
Indiana	15,539	8,214	1,108	1,172	660	497	515	1,574	60	1,739
Iowa	11,925	7,708	1,088	897	179	502	306	1,014	171	60
Kansas	8,961	6,080	539	787	95	363	177	855	8	57
Kentucky	8,432	5,916	449	744	227	380	224	397	31	64
Louisiana	9,070	6,103	439	789	209	376	493	535	32	94
Maine	4,700	3,023	354	416	106	145	325	257	21	53
Maryland	14,596	9,149	857	1,754	344	622	766	831	59	214
Massachusetts	35,755	22,718	3,704	3,048	620	1,512	2,192	1,220	111	630
Michigan	29,923	20,605	1,839	1,855	1,179	1,075	700	2,173	119	378
Minnesota	18,222	12,618	1,973	1,258	254	667	452	733	55	212
Mississippi	5,101	3,330	197	516	68	231	230	342	151	36
Missouri	14,721	9,926	751	1,371	385	781	359	898	40	210
Montana	3,246	2,110	267	237	14	99	112	367	4	36
Nebraska	6,649	4,637	463	412	80	381	125	440	39	72
Nevada	1,718	1,154	50	163	22	49	57	192	16	15
New Hampshire	4,388	2,510	531	472	70	169	251	278	41	66
New Jersey	30,973	16,838	2,470	3,995	903	974	2,068	2,108	91	1,526
New Mexico	2,755	1,810	66	377	37	95	69	248	22	31
New York	89,072	56,054	5,674	9,228	2,132	3,620	7,564	3,624	283	887
North Carolina	16,573	10,540	580	1,632	397	695	958	1,358	98	315
North Dakota	2,853	1,936	316	138	10	150	66	188	8	41
Ohio	40,308	27,035	2,466	2,512	1,522	1,460	1,275	3,100	620	318
Oklahoma	6,496	4,458	498	558	96	223	187	424	31	21
Oregon	8,739	5,662	692	644	116	247	193	1,042	23	120
Pennsylvania	58,865	36,282	4,468	5,338	1,654	2,348	4,270	3,680	201	624
Rhode Island	4,631	3,206	322	392	87	163	245	124	19	73
South Carolina	7,790	4,621	423	822	263	269	516	722	39	115
South Dakota	3,025	1,841	418	227	7	145	50	285	13	39
Tennessee	9,338	6,353	279	795	373	404	477	439	59	159
Texas	27,910	18,452	1,119	3,029	643	1,105	1,150	1,925	97	393
Utah	3,205	2,339	105	222	44	158	33	214	5	85
Vermont	2,828	1,623	353	360	40	100	133	165	11	43
Virginia	16,472	10,606	692	1,674	381	638	1,030	1,195	57	199
Washington	14,266	8,675	1,624	1,069	187	493	237	1,689	29	263
West Virginia	5,980	4,251	170	432	193	236	282	323	18	75
Wisconsin	18,849	12,386	2,461	1,262	498	779	263	1,014	42	144
Wyoming	1,470	1,002	93	155	14	40	13	145	5	3

1/ Includes school nurses.

SOURCE: Roth, Aleda V. and Walden, Alice R. The Nation's Nurses, 1972 Inventory of Registered Nurses. New York. The Association, 1974, p. 41.

Table 45-Active registered nurses by field of practice, region and State: 1977

Region and State	Total	Hospital	Nursing Home	Nursing Education	Private Duty	School Nurse	Occupational Health	Office Nurse	Community Health	Self-employed	Other	Field Not reported
United States	958,308	622,804	72,692	32,199	26,410	33,530	20,736	59,553	52,864	3,672	21,112	12,736
Northeast	276,681	169,124	26,670	8,574	13,220	13,889	5,798	13,497	14,518	1,010	6,368	4,013
North Central	268,650	178,849	22,797	9,821	4,099	7,499	6,759	18,227	12,301	759	4,056	3,483
South	249,843	167,787	12,285	9,495	6,305	6,220	5,612	15,446	16,766	980	5,900	3,047
West	163,134	107,044	10,940	4,309	2,786	5,922	2,567	12,383	9,279	923	4,788	2,193
Alabama	10,599	7,304	559	534	169	141	298	550	810	24	162	48
Alaska	1,670	968	77	38	8	101	16	215	154	10	50	33
Arizona	12,825	8,492	625	337	305	758	160	817	576	55	576	124
Arkansas	5,714	3,869	430	283	41	136	106	355	399	12	46	37
California	80,372	54,398	4,563	1,999	1,562	2,975	1,487	5,271	4,735	465	2,033	884
Colorado	15,138	9,637	1,295	331	199	544	237	929	692	66	753	455
Connecticut	16,712	8,521	2,696	413	809	952	431	942	985	107	394	462
Delaware	3,454	2,042	209	164	142	248	102	281	146	9	83	28
District of Columbia	5,625	3,971	101	237	154	84	304	170	308	18	239	39
Florida	37,517	25,187	2,068	888	1,649	305	539	2,564	3,021	133	914	249
Georgia	16,674	11,146	821	597	471	216	402	1,040	1,339	54	424	164
Hawaii	3,190	2,031	136	74	60	69	38	373	255	16	112	26
Idaho	3,463	2,188	311	111	25	79	42	337	206	18	89	57
Illinois	49,626	32,945	3,710	1,663	868	1,663	1,331	3,762	1,978	172	1,143	391
Indiana	20,891	12,736	1,815	794	470	725	714	2,116	772	106	350	293
Iowa	15,083	9,577	1,510	632	161	634	274	1,182	509	37	481	86
Kansas	10,721	7,329	674	380	92	369	135	872	468	27	215	160
Kentucky	11,020	7,689	622	467	153	135	242	516	837	23	250	86
Louisiana	11,234	7,639	508	540	335	195	234	634	870	53	161	65
Maine	5,922	3,691	565	185	201	218	119	290	452	10	26	165
Maryland	18,246	11,866	1,210	553	573	567	364	988	1,348	83	573	121
Massachusetts	42,463	26,841	4,324	1,373	1,759	1,708	603	1,324	1,894	112	1,797	728
Michigan	40,035	27,677	2,685	1,519	571	580	1,306	2,536	2,246	126	327	462
Minnesota	22,087	14,491	2,442	653	244	632	292	849	861	49	107	1,467
Mississippi	6,474	4,285	309	364	152	137	103	364	524	11	214	11
Missouri	19,844	14,128	1,105	723	213	723	392	1,018	1,021	47	283	191
Montana	3,869	2,366	402	123	63	96	43	409	177	18	138	34
Nebraska	8,601	5,808	720	414	170	293	103	535	324	34	169	31
Nevada	2,615	1,761	160	58	47	82	31	217	175	14	48	22
New Hampshire	6,445	3,638	829	218	234	390	76	412	428	25	129	66
New Jersey	31,418	18,477	2,732	961	1,402	2,516	773	2,133	1,544	105	539	236
New Mexico	4,321	2,720	114	154	87	254	59	348	306	103	136	40
New York	98,667	62,174	8,061	2,918	5,771	4,652	2,034	3,967	5,016	376	2,274	1,424
North Carolina	23,718	15,847	1,135	799	204	412	530	1,797	845	289	569	1,291
North Dakota	3,670	2,446	412	175	31	42	25	265	147	9	76	42
Ohio	51,127	34,510	3,787	1,792	1,077	1,366	1,633	3,512	2,392	97	726	235
Oklahoma	8,107	5,680	396	363	130	246	119	482	428	25	181	57
Oregon	12,538	8,037	1,082	328	182	352	149	1,218	730	56	215	189
Pennsylvania	65,781	40,064	6,373	2,239	2,750	2,988	1,622	4,048	3,526	253	1,066	852
Rhode Island	5,986	3,954	647	188	219	251	93	162	352	8	49	63
South Carolina	9,967	5,972	520	394	255	283	345	820	1,1243	15	179	60
South Dakota	3,504	2,191	449	160	15	94	12	297	162	7	63	54
Tennessee	13,989	10,069	514	529	272	213	487	592	918	41	235	119
Texas	38,902	26,093	1,564	1,643	918	2,081	779	2,394	2,068	117	933	312
Utah	4,276	3,069	175	190	37	76	60	255	243	10	74	87
Vermont	3,287	1,764	443	79	75	214	47	219	321	14	94	17
Virginia	21,239	13,984	1,102	848	554	667	451	1,516	1,387	67	495	168
Washington	17,097	10,282	1,872	520	202	445	227	1,812	927	89	531	190
West Virginia	7,364	5,144	217	292	133	154	207	383	394	6	242	192
Wisconsin	23,461	15,011	3,488	916	187	378	542	1,283	1,421	48	116	71
Wyoming	1,760	1,095	128	46	9	91	18	182	103	3	33	52

SOURCE: American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Table 46-Estimated number and percent of registered nurses employed in nursing by field of employment and type of position for primary nursing job, September 1977

Type of position	Total[1]	Field of employment: Hospital	Nursing home	Nursing education	Public health	Student health	Occupational health	Physician's office	Other[2]
					Number				
Total[1].....................	978,234	601,011	79,647	37,826	77,139	41,365	24,317	69,263	18,855
Administrator	47,563	15,805	17,296	5,834	5,160	699	542	271	1,956
Consultant	4,639	386	1,159	--	1,206	79	211	426	1,173
Supervisor	66,883	42,227	13,1[illegible]	--	8,167	405	1,267	1,051	618
Instructor	48,369	13,029	2,246	31,333	888	170	--	--	70[illegible]
Head nurse	84,770	69,987	5,544	--	4,040	[illegible]	1,647	2,545	[illegible]
General duty/staff nurse	622,170	414,986	38,994	46	46,355	37,620	19,473	59,150	5,510
Nurse clinician	7,045	4,018	--	--	1,379	272	234	862	280
Nurse midwife/practitioner ...	9,634	3,29[illegible]	16	--	2,988	990	136	1,603	605
Clinical nursing specialist ..	8,065	5,919	207	76	1,360	28	--	257	218
Nurse anesthetist	13,046	10,791	--	--	--	--	--	1,350	835
Researcher	1,945	965	--	--	--	--	397	--	583
Other	34,515	18,799	1,035	537	5,514	532	411	1,749	5,938
					Percent				
Total[1].....................	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Administrator	4.9	2.6	21.7	15.4	6.7	1.7	2.2	0.4	10.4
Consultant	0.5	0.1	1.5	--	1.6	0.2	0.9	0.6	6.2
Supervisor	6.8	7.0	16.5	--	10.6	1.0	5.2	1.5	3.2
Instructor	4.9	2.2	2.8	82.8	1.2	0.4	--	--	3.7
Head nurse	8.7	11.6	7.0	--	5.2	1.4	6.8	3.7	2.3
General duty/staff nurse	63.6	69.0	49.0	0.1	60.1	90.9	80.1	85.4	29.2
Nurse clinician	0.7	0.7	--	--	1.8	0.7	1.0	1.2	1.5
Nurse midwife/practitioner ...	1.0	0.5	0.0	--	3.9	2.4	0.6	2.3	3.2
Clinical nursing specialist ..	0.8	1.0	0.3	0.2	1.8	0.1	--	0.4	1.2
Nurse anesthetist	1.3	1.8	--	--	--	--	--	1.5	4.4
Researcher	0.2	0.2	--	--	--	--	1.6	--	3.1
Other	3.5	3.1	1.3	1.4	7.1	1.3	1.7	2.5	31.5

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[1] Includes an estimated 247 nurses who did not report field of employment, 1,026 nurses who did not report type of position and 28,563 nurses employed in private duty nursing.

[2] Includes self-employed, federal agency, state board of nursing, health association, planning agency, and temporary placement agency.

SOURCE: Roth, Aleda et al., 1977 National Sample Survey of Registered Nurses, National Technical Information Service, Springfield, Va. 1979.

Table 47-Active licenced practical nurses by census region, and field of employment: 1967 and 1974

Field of employment	United States 1967	United States 1974	Northeast 1967	Northeast 1974	North Central 1967	North Central 1974	South 1967	South 1974	West 1967	West 1974
	Number									
Total	252,522	377,889	73,553	91,423	61,569	102,525	80,079	131,110	37,321	52,831
Hospital	166,483	238,467	47,439	54,960	41,600	65,652	51,473	84,247	25,971	33,608
Nursing home	29,807	65,351	9,147	18,269	7,938	19,714	8,033	18,944	4,689	8,424
Private nursing	34,588	28,210	12,412	9,948	6,810	5,572	12,217	9,755	3,149	2,935
Office nursing	14,466	24,497	2,226	3,486	3,637	5,670	6,183	11,086	2,420	4,255
Public health	3,139	5,863	969	1,400	813	1,389	843	2,179	514	895
Industry	1,007	2,320	278	396	319	687	308	977	102	260
Other field	657	10,708	147	2,653	95	2,946	231	2,900	184	2,209
Not reported	2,375	2,473	935	311	357	895	791	1,022	292	245
	Percent									
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Hospital	65.9	63.1	64.5	60.1	67.6	64.0	64.3	64.3	69.6	63.6
Nursing home	11.8	17.3	12.4	20.0	12.9	19.2	10.0	14.4	12.5	15.9
Private nursing	13.7	7.5	16.9	10.9	11.1	5.4	15.3	7.4	8.4	5.6
Office nursing	5.7	6.5	3.0	3.8	5.9	5.5	7.7	8.5	6.5	8.0
Public health	1.3	1.6	1.3	1.5	1.3	1.4	1.0	1.7	1.4	1.7
Industry	0.4	0.6	0.4	0.4	0.5	0.7	0.4	0.7	0.3	0.5
Other field	0.3	2.8	0.2	2.9	0.1	2.9	0.3	2.2	0.5	4.2
Not reported	0.9	0.6	1.3	0.4	0.6	0.9	1.0	0.8	0.8	0.5

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. LPN's 1967-An Inventory of Licensed Practical Nurses. Washington, U.S. Government Printing Office, 1971.

Roth, Aleda V. and Schmittling, Gordon T. LPN's 1974 Inventory of Licensed Practical Nurses. Kansas City, American Nurses' Association, 1977.

Table 48-Active registered nurses by type of position, region and State: 1949

Region and State	Total	Administrator or assistant	Consultant	Supervisor or assistant	Instructor	Head nurse or assistant	Staff or general duty nurse	Other	Unclassified[1]
United States	299,067	10,973	1,394	32,203	6,913	28,698	101,527	4,532	112,827
Northeast	103,206	4,031	440	10,449	2,726	10,873	33,253	1,392	40,042
North Central	83,847	3,108	436	9,787	2,088	8,100	30,200	1,221	28,907
South	59,422	2,080	328	7,192	1,288	5,201	18,297	1,130	23,906
West	52,592	1,754	190	4,775	811	4,524	19,777	789	19,972
Alabama	2,886	86	9	410	61	231	918	72	1,099
Alaska	471	29	11	38	2	36	229	9	117
Arizona	1,291	40	5	95	13	83	445	30	580
Arkansas	964	38	11	125	14	91	269	32	384
California	32,707	916	98	2,846	425	2,747	12,363	491	12,821
Colorado	3,210	135	13	344	64	324	1,229	45	1,056
Connecticut	5,569	217	39	557	145	574	1,999	72	1,966
Delaware	967	40	5	107	30	67	300	17	401
District of Columbia	3,328	146	60	236	83	416	1,235	47	1,105
Florida	4,399	132	18	519	44	224	1,210	70	2,182
Georgia	3,522	141	42	433	88	338	1,018	109	1,353
Hawaii	1,095	59	8	121	24	105	497	14	267
Idaho	1,002	56	1	127	18	67	312	20	401
Illinois	21,542	711	129	2,887	517	2,176	6,958	366	7,798
Indiana	5,706	183	28	571	120	514	1,860	51	2,379
Iowa	4,022	129	8	491	72	253	1,448	60	1,561
Kansas	3,521	137	25	528	77	271	1,099	32	1,352
Kentucky	2,689	91	5	323	48	245	982	59	936
Louisiana	3,879	109	23	415	85	450	1,230	89	1,478
Maine	2,061	107	6	194	33	148	598	23	952
Maryland	4,580	179	18	568	128	531	1,640	55	1,461
Massachusetts	14,726	825	59	1,752	427	1,708	4,153	162	5,640
Michigan	12,047	434	72	1,193	289	1,036	4,915	217	3,891
Minnesota	5,789	272	29	579	168	666	2,292	116	1,667
Mississippi	1,538	52	3	228	26	97	494	37	601
Missouri	5,134	205	41	621	113	560	1,653	62	1,879
Montana	1,201	64	8	154	28	121	388	9	429
Nebraska	1,956	90	8	262	49	133	640	37	737
Nevada	305	11	--	22	5	22	118	6	121
New Hampshire	1,460	57	4	168	31	123	458	12	607
New Jersey	9,235	351	28	997	240	914	2,678	120	3,907
New Mexico	820	40	8	82	13	54	311	11	301
New York	44,163	1,634	221	4,240	1,193	5,255	15,280	530	15,810
North Carolina	4,855	141	15	631	102	379	1,646	82	1,359
North Dakota	828	46	3	124	27	85	288	22	233
Ohio	15,951	606	64	1,675	494	1,691	5,982	159	5,280
Oklahoma	2,127	92	13	317	40	149	542	34	940
Oregon	3,478	129	17	310	83	289	1,071	70	1,509
Pennsylvania	23,252	698	70	2,302	604	1,930	7,022	442	10,184
Rhode Island	1,517	74	6	123	32	162	652	17	451
South Carolina	2,133	60	17	307	38	139	578	43	951
South Dakota	985	60	4	149	22	91	321	10	328
Tennessee	3,151	104	28	378	88	337	1,059	41	1,116
Texas	11,129	412	33	1,336	256	968	2,882	223	5,019
Utah	1,238	52	5	114	33	139	537	11	347
Vermont	1,223	68	7	116	21	59	413	14	525
Virginia	4,521	163	14	529	99	371	1,429	90	1,826
Washington	5,233	204	16	461	99	497	2,041	68	1,847
West Virginia	2,754	94	14	330	58	168	865	30	1,195
Wisconsin	6,366	235	25	707	140	624	2,744	89	1,802
Wyoming	541	19	--	61	4	40	236	5	176
Puerto Rico	1,466	54	19	252	38	245	527	16	315

1/ Includes office and private duty nurses.

SOURCE: American Nurses' Association. Inventory of Professional Registered Nurses, 1949. New York, The Association, p. 18.

Table 49-Active registered nurses by type of position, region and State: 1957

Region and State	Total	Administrator or assistant	Consultant	Supervisor or assistant	Instructor	Head nurse or assistant	Staff or general duty nurse	Other[1]	Unknown
United States	464,136	12,789	1,375	38,997	11,392	49,502	212,476	122,687	14,920
Northeast	161,679	4,055	405	11,565	3,920	16,464	72,288	45,088	7,894
North Central	130,042	3,813	355	11,801	3,616	13,978	63,369	30,584	2,526
South	100,055	2,915	328	9,988	2,534	10,544	42,484	28,309	2,953
West	72,362	2,006	287	5,643	1,322	8,516	34,335	18,706	1,547
Alabama	4,482	137	11	491	117	515	2,037	1,101	73
Alaska	357	22	-	17	3	32	188	78	17
Arizona	3,429	89	15	200	47	355	1,758	932	33
Arkansas	2,200	105	10	282	71	288	772	539	133
California	37,469	968	166	2,868	607	4,885	17,390	10,268	317
Colorado	6,071	168	23	471	153	569	3,126	1,452	109
Connecticut	13,762	247	28	661	267	1,130	7,182	3,886	361
Delaware	1,587	37	-	118	37	127	843	418	7
District of Columbia	3,734	117	42	273	87	528	1,492	908	287
Florida	11,766	371	31	1,061	285	1,190	4,985	3,485	358
Georgia	6,360	202	34	698	157	705	2,711	1,822	31
Hawaii	1,893	46	12	153	33	149	1,096	395	9
Idaho	1,498	56	2	144	40	155	602	447	52
Illinois	24,024	764	80	2,432	683	2,601	10,973	6,288	203
Indiana	10,593	288	39	858	266	1,076	4,892	2,939	235
Iowa	8,034	219	12	661	189	729	3,869	2,052	303
Kansas	5,833	183	10	644	167	767	2,610	1,318	134
Kentucky	4,181	139	12	484	116	581	1,581	874	394
Louisiana	6,154	130	16	591	154	649	2,217	1,866	531
Maine	3,059	100	3	243	54	298	1,353	946	62
Maryland	7,538	252	26	754	284	918	3,553	1,674	77
Massachusetts	16,801	628	55	1,502	478	2,102	6,089	4,949	998
Michigan	17,572	469	37	1,590	462	1,694	8,359	4,133	828
Minnesota	11,906	339	33	923	366	1,337	6,480	2,308	120
Mississippi	3,135	98	8	326	52	205	1,398	989	59
Missouri	8,841	296	44	1,001	261	1,118	3,976	1,906	239
Montana	2,314	82	7	219	59	294	977	666	10
Nebraska	4,289	157	-	390	122	379	2,281	947	13
Nevada	656	21	1	56	7	43	332	170	26
New Hampshire	2,922	95	12	256	80	298	1,348	817	16
New Jersey	16,771	392	41	1,260	405	1,513	8,413	4,532	215
New Mexico	1,962	78	14	159	25	166	1,074	425	21
New York	63,996	1,457	162	4,060	1,465	7,088	27,977	16,390	5,397
North Carolina	9,392	211	26	876	176	863	4,223	2,921	96
North Dakota	1,890	64	5	189	79	181	923	377	72
Ohio	24,137	625	64	1,983	676	2,908	11,724	5,928	229
Oklahoma	3,360	110	11	325	80	351	1,597	788	98
Oregon	5,360	166	16	419	98	571	2,419	1,483	188
Pennsylvania	39,645	976	84	3,196	1,036	3,520	17,470	12,540	823
Rhode Island	3,268	100	18	264	94	395	1,775	603	19
South Carolina	4,342	83	7	402	83	270	1,942	1,514	41
South Dakota	1,559	91	7	138	71	168	651	361	72
Tennessee	5,065	187	15	504	164	645	2,109	1,216	225
Texas	14,261	409	34	1,702	369	1,602	5,396	4,451	298
Utah	1,841	57	8	124	68	197	1,038	331	18
Vermont	1,455	60	2	123	41	120	681	425	3
Virginia	8,239	218	31	669	209	802	3,570	2,524	216
Washington	8,528	222	21	725	167	1,034	3,787	1,828	744
West Virginia	4,259	109	14	432	93	305	2,058	1,219	29
Wisconsin	11,364	318	24	992	274	1,020	6,631	2,027	78
Wyoming	984	31	2	88	15	66	548	231	3

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[1] Includes office and private duty nurses.

SOURCE: American Nurses' Association. Research and Statistics Unit. Report of 1956-58 Inventory of Professional Registered Nurses. New York, The Association, 1963, Table 13.

Table 50-Active registered nurses by type of position, region and State: 1962

Region and State	Total	Administrator or assistant	Consultant	Supervisor or assistant	Instructor	Head nurse or assistant	Staff or general duty nurse	Other 1/	Unknown 2/
United States	532,118	17,193	2,717	49,002	15,349	71,888	281,602	[illegible]	17,239
Northeast	174,299	5,315	589	14,592	5,221	21,696	89,391	31,836	5,659
North Central	148,932	5,187	993	14,254	4,760	20,001	83,609	16,566	3,562
South	115,544	3,741	743	12,121	3,482	15,769	56,257	19,401	4,030
West	93,343	2,950	392	8,035	1,886	14,422	[illegible]	9,725	3,988
Alabama	5,047	178	15	582	172	671	2,442	642	345
Alaska	683	30	4	49	[illegible]	78	458	49	11
Arizona	4,896	160	23	339	[illegible]	628	2,950	669	21
Arkansas	2,194	107	13	328	83	375	967	269	52
California	52,151	1,556	[illegible]	4,372	961	8,675	27,975	5,189	3,190
Colorado	6,825	182	31	619	163	903	4,191	[illegible]	31
Connecticut	11,365	334	49	820	295	1,520	5,822	2,403	122
Delaware	1,775	55	9	131	42	210	1,028	262	38
District of Columbia	4,000	122	48	345	151	635	1,674	810	215
Florida	14,109	353	42	1,320	250	2,037	6,919	2,871	317
Georgia	7,816	259	48	843	255	1,019	[illegible]	1,781	229
Hawaii	1,974	51	5	147	36	188	[illegible]	223	125
Idaho	1,913	82	4	200	48	319	[illegible]	192	15
Illinois	[illegible]	1,260	187	3,523	816	4,212	13,860	3,845	2,187
Indiana	11,223	342	[illegible]	1,032	303	1,470	6,551	1,332	141
Iowa	8,555	311	29	743	294	977	4,854	902	445
Kansas	6,208	223	293	126	215	1,089	3,494	579	189
Kentucky	5,317	203	28	642	182	833	2,661	499	269
Louisiana	6,594	195	22	745	177	977	2,958	1,231	289
Maine	3,462	111	3	348	73	420	1,640	667	200
Maryland	7,779	309	47	856	312	1,029	3,970	1,104	152
Massachusetts	21,928	842	47	2,111	823	2,811	10,650	3,831	813
Michigan	20,433	830	113	1,911	666	[illegible]	11,435	1,805	671
Minnesota	13,192	420	54	1,189	427	[illegible]	7,533	1,498	277
Mississippi	3,141	110	17	371	72	315	1,664	505	87
Missouri	9,151	339	120	1,097	360	1,329	4,715	919	272
Montana	2,412	98	11	218	59	362	1,279	328	57
Nebraska	4,587	169	13	447	182	552	2,615	523	86
Nevada	888	38	3	88	14	127	510	92	16
New Hampshire	[illegible]	112	11	313	80	372	1,556	481	22
New Jersey	21,860	677	81	1,732	479	[illegible]	11,810	3,637	742
New Mexico	2,080	80	15	[illegible]	27	[illegible]	1,168	256	96
New York	67,199	1,890	285	5,318	1,985	9,087	33,889	12,179	2,566
North Carolina	10,793	257	28	1,008	349	1,067	[illegible]	1,706	518
North Dakota	2,138	71	4	218	93	295	1,136	230	91
Ohio	29,381	729	80	2,536	916	3,638	17,814	3,509	109
Oklahoma	3,948	183	223	166	115	762	[illegible]	502	210
Oregon	6,209	217	15	570	114	[illegible]	[illegible]	691	56
Pennsylvania	40,497	1,126	86	3,468	1,310	[illegible]	21,355	7,947	1,100
Rhode Island	3,381	133	20	310	129	[illegible]	1,881	361	60
South Carolina	5,184	126	18	531	137	552	[illegible]	921	148
South Dakota	1,896	92	14	168	100	229	1,038	189	66
Tennessee	6,324	219	24	694	247	985	2,952	999	204
Texas	17,222	669	103	2,169	477	[illegible]	7,721	2,781	696
Utah	2,222	71	11	159	88	291	1,399	151	52
Vermont	1,660	90	7	172	47	192	788	330	34
Virginia	9,886	287	45	891	318	1,237	5,018	[illegible]	203
Washington	10,024	347	32	973	238	1,691	5,760	690	293
West Virginia	4,415	109	13	499	[illegible]	459	2,503	631	58
Wisconsin	13,278	401	34	1,264	388	[illegible]	8,564	1,235	28
Wyoming	1,066	38	5	90	28	103	685	90	27

1/ Includes private duty nurses.
2/ Office nurses are classified according to position, and were included with "staff or general duty nurses" if not reported.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book-Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 55.

Table 51-Active registered nurses by type of position, region and State: 1966

Region and State	Total	Administrator or assistant	Consultant	Supervisor or assistant	Instructor	Head nurse or assistant	Staff or general duty nurse	Other[1]	Not reported
United States	593,694	19,959	3,201	58,011	20,606	87,904	317,568	68,838	17,607
Northeast	193,580	5,996	841	17,157	6,754	27,346	96,439	29,657	9,390
North Central	164,443	5,442	972	15,854	6,338	23,569	96,131	13,162	2,975
South	131,987	4,666	786	15,232	4,738	19,806	65,240	17,930	3,589
West	103,684	3,855	602	9,768	2,776	17,183	59,758	8,089	1,653
Alabama	5,685	237	30	838	243	835	2,732	555	215
Alaska	581	30	5	47	4	76	374	29	16
Arizona	5,775	184	23	434	142	746	3,500	697	49
Arkansas	2,569	123	13	463	93	459	1,124	226	68
California	57,537	2,223	360	5,657	1,523	10,430	31,729	6,588	1,027
Colorado	8,208	233	38	708	213	1,065	5,299	580	72
Connecticut	14,973	353	44	952	411	1,825	7,696	3,145	547
Delaware	2,043	79	7	149	70	248	1,173	290	27
District of Columbia	3,604	155	77	335	174	596	1,627	579	61
Florida	21,007	602	86	2,013	449	3,322	9,150	4,317	1,068
Georgia	6,851	301	66	834	299	1,090	3,146	1,006	109
Hawaii	2,193	65	10	181	50	236	1,436	186	29
Idaho	1,946	73	7	205	52	295	1,153	144	17
Illinois	33,331	1,241	231	3,313	1,241	4,866	18,730	3,052	657
Indiana	12,307	377	62	1,173	430	1,766	7,435	916	148
Iowa	9,956	345	52	937	390	1,402	5,939	807	84
Kansas	6,558	262	49	699	233	1,056	3,766	440	53
Kentucky	6,130	225	49	729	769	1,018	3,314	399	127
Louisiana	6,598	203	32	869	243	1,098	3,126	928	99
Maine	3,963	145	13	462	96	605	1,898	619	125
Maryland	9,840	391	87	[illegible]	422	1,371	5,274	1,127	123
Massachusetts	25,729	946	120	2,614	1,124	3,722	12,856	3,582	765
Michigan	22,005	769	136	2,287	866	3,419	12,443	1,402	683
Minnesota	14,184	378	67	1,217	520	1,883	8,125	1,273	721
Mississippi	3,553	124	16	421	117	330	1,824	448	253
Missouri	11,021	414	166	1,235	550	1,545	6,144	765	202
Montana	2,471	98	12	206	71	350	1,394	309	31
Nebraska	[illegible]	199	17	466	229	608	[illegible]	377	41
Nevada	1,052	42	5	98	20	142	641	86	18
New Hampshire	3,381	130	17	373	112	503	1,743	461	42
New Jersey	24,283	772	99	2,077	678	3,271	13,378	3,148	860
New Mexico	2,482	94	18	253	59	287	1,524	203	44
New York	72,456	2,207	375	6,331	2,465	11,363	33,335	10,660	5,720
North Carolina	12,038	369	47	1,156	487	1,476	6,623	1,696	184
North Dakota	2,095	80	4	233	110	310	1,120	193	45
Ohio	32,239	825	111	2,824	1,183	4,693	19,707	2,748	148
Oklahoma	4,435	231	39	672	132	710	2,139	404	108
Oregon	6,647	302	39	604	172	1,206	3,726	486	112
Pennsylvania	43,382	1,236	145	3,844	1,649	5,290	22,563	7,410	1,245
Rhode Island	3,617	[illegible]	[illegible]	325	150	547	2,020	[illegible]	48
South Carolina	5,367	136	25	568	153	636	2,976	790	83
South Dakota	2,055	115	13	206	120	284	1,116	162	39
Tennessee	6,628	241	38	866	331	1,091	3,123	807	131
Texas	19,491	783	107	2,689	667	3,328	8,907	2,235	775
Utah	2,329	80	24	172	110	304	1,478	107	54
Vermont	1,796	87	7	179	69	220	950	246	38
Virginia	11,461	334	41	1,120	418	1,612	6,165	1,652	119
Washington	11,259	384	56	1,085	330	1,931	6,704	597	172
West Virginia	4,687	132	26	465	171	566	2,817	471	39
Wisconsin	14,018	437	64	1,264	466	1,737	8,869	1,027	154
Wyoming	1,204	47	5	118	30	115	800	77	12

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[1] Includes office and private duty nurses.

SOURCE: American Nurses' Association. Research and Statistics Unit. Report of 1966 Inventory of Registered Nurses. New York, The Association, 1968.

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Table 5[illegible]-Active registered nurses by type of position, region and State: 1972

Region and State	Total	Administrator or assistant	Consultant	Supervisor or assistant	Instructor	Head nurse or assistant	Staff or general duty nurse	Other[1]	Not reported
United States	778,470	28,752	6,681	80,648	32,657	119,905	432,976	54,841	21,010
Northeast	248,779	8,480	1,848	23,150	10,073	39,425	133,824	23,118	8,861
North Central	215,198	8,188	1,935	21,785	9,743	30,146	128,937	9,992	4,472
South	184,973	7,820	1,613	22,725	8,397	28,906	95,358	15,826	4,328
West	129,520	5,264	1,285	12,988	4,444	21,428	74,857	5,905	3,349
Alabama	7,753	336	55	1,117	396	1,184	3,996	504	165
Alaska	1,373	64	20	127	24	164	881	31	62
Arizona	7,418	266	51	590	279	1,071	4,572	523	66
Arkansas	3,757	244	36	689	182	763	1,482	199	162
California	68,118	2,908	678	7,220	2,337	12,667	37,330	3,307	1,671
Colorado	11,634	386	161	997	369	1,363	7,754	443	161
Connecticut	17,567	593	93	1,197	654	2,406	9,506	2,461	657
Delaware	2,886	105	25	239	176	370	1,704	227	40
District of Columbia	4,968	237	120	501	291	718	2,425	527	149
Florida	25,496	872	171	2,620	915	4,485	12,880	2,752	803
Georgia	12,353	675	109	1,485	588	2,036	5,847	1,397	216
Hawaii	3,074	112	35	268	77	377	1,951	164	90
Idaho	2,504	88	10	291	88	413	1,443	152	19
Illinois	44,223	1,756	502	4,440	1,711	6,392	25,951	2,107	1,364
Indiana	15,539	625	87	1,624	656	2,389	9,095	770	293
Iowa	11,925	483	85	1,273	564	1,311	7,518	615	76
Kansas	8,961	365	88	1,111	378	1,460	5,047	316	196
Kentucky	8,432	348	83	1,095	416	1,256	4,627	371	236
Louisiana	9,070	358	57	1,368	415	1,535	4,374	797	166
Maine	4,700	196	21	557	158	871	2,375	401	121
Maryland	14,596	641	207	1,568	655	1,891	8,329	1,042	263
Massachusetts	35,755	1,416	285	3,537	1,655	6,049	19,013	2,662	1,138
Michigan	29,923	1,191	242	3,105	1,437	4,762	17,497	1,232	457
Minnesota	18,222	556	125	1,682	797	2,317	11,416	869	460
Mississippi	5,101	172	38	668	243	662	2,434	842	42
Missouri	14,721	683	249	1,683	781	1,891	8,353	677	404
Montana	3,246	134	29	307	102	417	2,017	174	66
Nebraska	6,549	247	70	711	298	799	4,033	277	114
Nevada	1,718	62	11	185	57	257	1,013	89	44
New Hampshire	4,388	207	29	515	163	761	2,296	314	103
New Jersey	30,973	1,067	220	2,521	1,000	4,222	17,138	2,477	2,328
New Mexico	2,755	135	21	361	97	234	1,443	138	326
New York	89,072	2,831	683	8,641	3,763	16,137	44,990	8,721	3,306
North Carolina	16,573	728	140	1,520	799	2,036	9,296	1,702	352
North Dakota	2,853	105	14	321	165	402	1,591	132	123
Ohio	40,308	1,231	297	3,650	1,778	5,713	24,727	2,251	661
Oklahoma	6,496	341	41	1,178	276	1,027	3,241	331	61
Oregon	8,739	411	66	898	287	1,566	4,972	343	196
Pennsylvania	58,865	1,873	458	5,484	2,381	7,843	34,196	5,604	1,026
Rhode Island	4,631	162	26	433	201	730	2,681	308	90
South Carolina	7,790	274	74	830	310	1,002	4,391	693	216
South Dakota	3,025	149	24	310	159	426	1,752	125	70
Tennessee	9,338	359	69	1,231	500	1,547	4,577	785	270
Texas	27,910	1,450	263	4,398	1,274	5,282	12,707	1,809	727
Utah	3,205	116	52	262	166	365	1,973	76	195
Vermont	2,828	135	33	265	98	406	1,629	170	92
Virginia	16,472	513	100	1,534	702	2,390	9,506	1,403	324
Washington	14,266	512	138	1,343	518	2,390	8,509	427	429
West Virginia	5,980	167	25	684	259	722	3,542	445	136
Wisconsin	18,849	797	152	1,875	919	2,284	11,947	621	254
Wyoming	1,470	70	13	139	43	144	999	38	24

[1] Includes private duty nurses.

SOURCE: American Nurses' Association. Statistics Department, Report of 1972 Inventory of Registered Nurses. Kansas City, Missouri. The Association, 1974.

Table 53-Active registered nurses by type of position, region and State: 1977

Region and State	Total	Adminis-trator or assistant	Consultant	Supervisor or assistant	Instructor	Head nurse or assistant	Staff or general duty nurse	Nurse practitioner	Clinical specialist	Other	Not reported
United States	958,308	34,881	7,609	91,862	42,775	133,426	543,782	13,625	5,472	68,311	16,565
Northeast	276,681	9,385	1,622	24,178	10,696	41,024	153,766	3,343	1,492	25,364	5,811
North Central	268,650	9,222	2,245	24,454	13,339	33,742	164,123	2,819	1,050	13,271	4,385
South	249,843	10,057	2,142	28,059	12,294	36,855	132,952	4,258	1,810	17,827	3,589
West	163,134	6,217	1,600	15,171	6,446	21,805	92,941	3,205	1,120	11,849	2,780
Alabama	10,599	526	78	1,384	645	1,540	5,190	180	70	757	229
Alaska	1,670	74	19	153	57	200	985	48	6	97	31
Arizona	12,825	358	73	918	456	1,432	7,396	215	57	1,794	126
Arkansas	5,714	343	49	922	350	1,098	2,516	118	29	245	44
California	80,372	3,380	899	8,177	3,312	11,328	44,678	1,681	618	4,808	1,491
Colorado	15,138	416	118	1,135	438	1,726	8,683	406	129	1,985	102
Connecticut	16,712	636	89	1,362	611	2,245	9,393	240	135	1,356	645
Delaware	3,454	99	7	251	205	428	2,032	54	34	307	37
District of Columbia ..	5,625	275	66	425	307	815	3,041	107	111	413	65
Florida	37,517	1,435	291	3,581	1,293	5,555	20,944	668	152	2,123	1,475
Georgia	16,674	839	157	1,966	860	2,710	8,385	232	116	1,199	210
Hawaii	3,190	129	17	287	105	388	1,929	48	32	216	39
Idaho	3,463	110	39	345	157	463	1,921	62	4	303	59
Illinois	49,626	1,795	422	4,291	2,125	6,582	29,478	515	245	3,393	780
Indiana	20,891	781	[illegible]	2,022	987	2,846	12,137	243	92	1,111	498
Iowa	15,083	459	158	1,451	816	1,767	9,175	137	43	949	128
Kansas	10,721	357	134	1,052	490	1,467	6,215	179	34	606	187
Kentucky	11,020	444	102	1,248	543	1,459	6,307	149	55	631	82
Louisiana	11,234	522	79	1,594	638	1,729	5,444	87	28	1,020	93
Maine	5,922	302	61	630	270	994	3,042	111	23	415	74
Maryland	18,246	660	143	1,651	764	2,139	10,680	325	325	1,397	162
Massachusetts	42,463	1,497	316	3,699	1,758	6,582	22,277	618	349	4,567	800
Michigan	40,035	1,419	279	3,578	2,237	5,340	24,622	322	162	1,634	442
Minnesota	22,087	758	150	1,759	918	2,349	13,551	252	80	712	1,558
Mississippi	6,474	315	52	906	418	920	3,019	84	32	717	11
Missouri	19,844	760	227	2,175	1,167	2,706	11,490	235	81	768	235
Montana	3,869	143	32	328	162	417	2,466	52	12	215	42
Nebraska	8,601	259	130	805	523	944	5,352	36	20	480	52
Nevada	2,615	90	22	266	96	407	1,485	52	9	160	28
New Hampshire	6,445	261	60	601	238	1,027	3,631	72	7	478	70
New Jersey	31,418	1,008	153	2,547	1,204	4,627	18,565	250	137	2,471	456
New Mexico	4,321	166	32	404	180	478	2,444	103	31	386	97
New York	98,667	3,482	605	8,593	3,767	15,974	53,964	1,078	550	9,144	1,510
North Carolina	23,718	633	139	2,098	1,089	2,987	13,067	229	433	2,802	241
North Dakota	3,670	129	21	376	211	386	2,286	43	3	183	32
Ohio	51,127	1,462	346	4,296	2,261	6,655	32,645	633	181	2,349	299
Oklahoma	8,107	360	99	1,258	446	1,274	4,003	126	16	456	69
Oregon	12,538	454	87	1,146	487	1,907	7,336	218	63	584	256
Pennsylvania	65,781	1,835	277	5,921	2,468	8,125	37,565	837	253	6,343	2,157
Rhode Island	5,986	209	33	544	257	967	3,451	54	20	382	69
South Carolina	9,967	363	96	998	477	1,251	5,436	717	73	515	41
South Dakota	3,504	162	29	353	180	467	2,048	26	11	159	69
Tennessee	13,989	467	123	1,720	778	2,075	7,462	245	80	831	208
Texas	38,902	1,857	526	5,370	2,046	6,743	18,537	480	166	2,836	341
Utah	4,276	173	61	331	235	492	2,632	79	11	159	103
Vermont	3,287	155	28	281	123	483	1,878	83	18	208	30
Virginia	21,239	705	92	1,913	1,058	3,131	12,554	398	72	1,132	184
Washington	17,097	663	191	1,514	695	2,384	9,887	212	142	1,053	356
West Virginia	7,354	204	43	774	377	1,001	4,335	59	18	446	97
Wisconsin	23,461	881	175	2,296	1,424	2,233	15,124	198	98	927	105
Wyoming	1,760	61	10	167	66	183	1,099	29	6	89	50

SOURCE: American Nurses' Association. 1977 Inventory of Registered Nurses. Kansas City, Missouri. The Association, unpublished data.

Chapter IV

Nursing Education

This chapter focuses on the development and growth of nursing education in the United States. Nursing education began in this country in 1873 with the opening of three schools. These schools offered students an opportunity to learn by doing, under the tutorship for 1 year of a superintendent who had been trained in one of the European nursing schools. Although these training programs would not meet today's standards even for the training of practical nurses, they improved patient care so dramatically that hospitals pushed the opening of new schools and thus increased the number of students enrolled. At the same time, the course was lengthened to 2 years to make it possible to retain students an additional year to serve as head nurses.

The earliest counts of schools of nursing and their enrollments are found in the annual reports to the U.S. Commission of Education, dating back to 1880. As State licensing bodies came into existence, counts of State-approved schools and their students began to be available. Since only graduates of State-approved schools could stand for licensure examinations, nonapproved schools tended to close as the effect of licensure became felt. However, not until 1923 was machinery for approving RN schools in operation in every State.[1]

It is only in recent years that education for practical nursing has also become a matter of recognized importance, and that much attention has been given to the development of educational standards. The first practical nursing school in this country was established in 1897. It provided an 8-week course for "attendants of the sick". The Committee for the Study of Nursing Education in 1923 recognized that the development of adequate training programs first required regulation of these workers by a licensing system which would set minimum standards for all who nurse the sick for hire.[2] As late as 1944 only 15 States had laws requiring the licensure of practical nursing.[3] Today all the States license practical or vocational nurses, setting minimum standards of acceptable training.

The number of schools offering initial programs of professional (registered) nursing reached its peak in 1929, when 1,885 schools were reported in operation.[4] Since then an almost steady decline to 1,115 in 1956 was followed by a fluctuating, but generally upward, trend for six years and a more rapid increase until 1972 when there were 1,363 State-approved schools of nursing (RN) in the United States and territories, with 1,377 initial programs. A pattern of slight decline or little growth has been evidenced since 1972. In 1979 there were 1,367 State-approved schools of nursing (RN) in the United States and territories, with 1,389 initial programs.

On the other hand, approved programs of practical nursing (LPN/LVN) more than quadrupled in the 20 year period from 1953 to 1973. After that period, the rate of growth of practical nursing programs declined and a relatively more stable growth from year to year became the pattern. The number of programs in operation reached its peak in 1976; since then the number of programs has declined yearly. In 1979 there were 1,318 programs of practical nursing in 1,241 State-approved schools of nursing (LPN/LVN).

Tables 54 to 58 have been compiled by State for the total number of RN schools reported, regardless of the number or type of programs they offer, in order to maintain the trend data. As with the other chapters of this Source Book, data for the outlying areas are entered wherever available, but are not included in the regional or U.S. totals except where specifically noted. Hawaii is included in the totals for all years, although it had no schools in the early decades. Alaska is included in the tables reporting LPN/LVN programs for all years, but had no RN program until 1968.

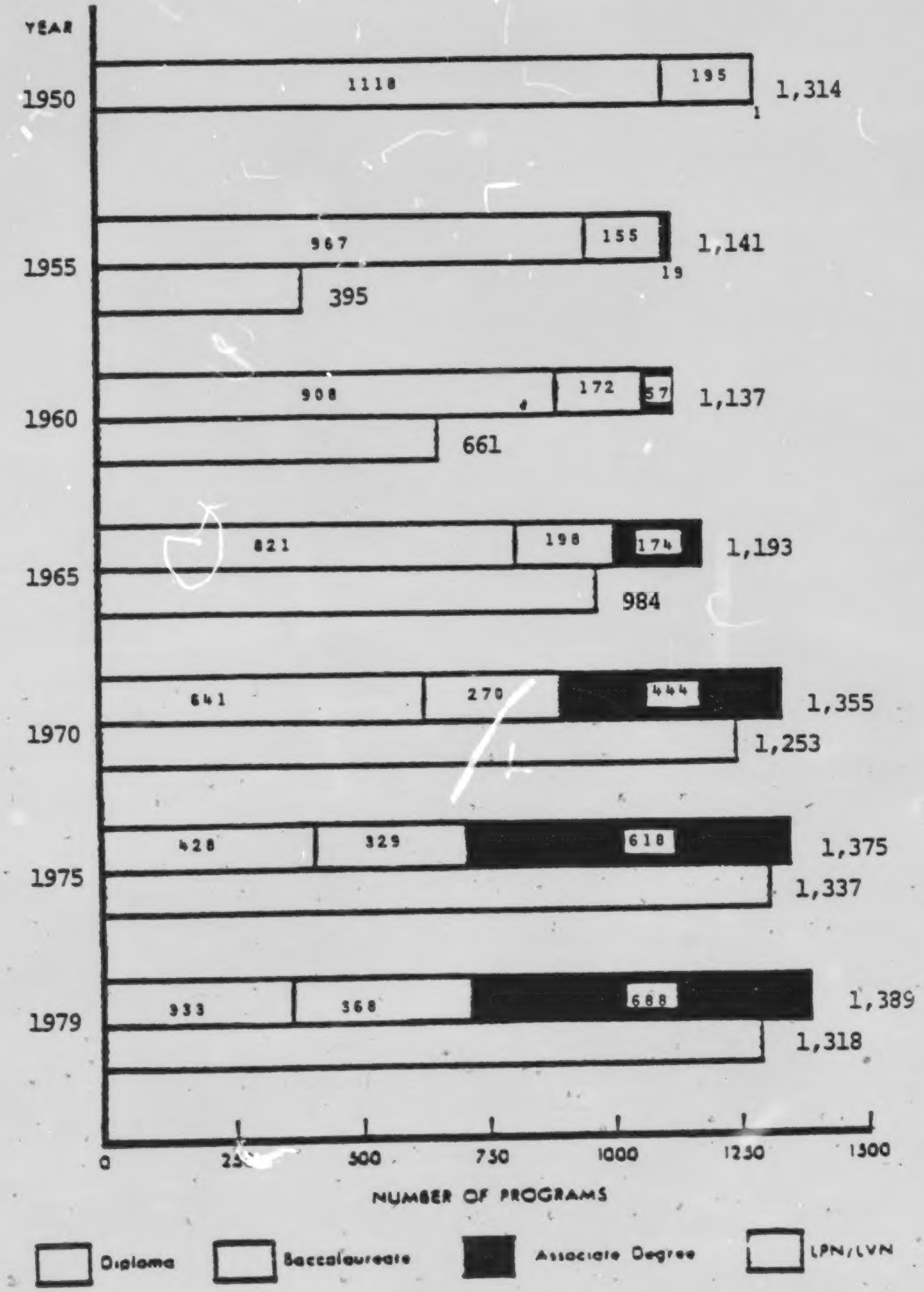
The closing of some RN schools throughout the years has apparently had little or no effect on the overall national growth in student enrollments, admissions, and graduations. Given the impetus of the Cadet Nurse Corps enrollments rose quickly in the mid-1940's, declined somewhat through the early 1950's and remained relatively stable into the early 1960's.[5] Thereafter the rise in enrollments accelerated until 1975, when enrollments reached a high point of some 250,000 students. Since that time enrollments in the initial baccalaureate and the associate degree programs would appear to have stabilized at their present level, enrollments in the diploma programs continue to exhibit a downward trend (table 61). RN admissions and graduations have followed a very similar pattern, rising sharply between 1962 and 1976, before leveling off in the late 1970's. Total enrollments, admissions, and graduations in all RN schools for 1978-79 are shown by State in table 58.

Although Federal assistance to RN schools and students may not be solely responsible for the large increase in numbers entering nursing practice, it is apparent that several Nurse Training Acts enacted since 1964 have stimulated and reflected concern about enlargement and improvement of nursing education programs. Not only have the numbers of students and the size of schools increased (table 59), but special programs have been developed to prepare registered nurses for expanded roles; curriculum changes have been made to suit the changing health care needs of the Nation and to promote upward mobility opportunities; and reinforcement courses have been tailored to assist the educationally disadvantaged to pursue their interest in nursing.

Just as significant has been the growth in practical nursing education. Increases in numbers of students in LPN/LVN programs have been very dramatic since 1954. Admissions in 1978-79 were nearly five times the number reported 25 years ago.

Administratively, 59 percent of the LPN/LVN training programs, enrolling 66 percent of the students, are controlled by secondary, or trade, technical, and vocational schools; 29 percent of the programs, enrolling 27 percent of the students, are in junior colleges; the remainder are in hospitals, senior colleges, government, and independent agencies.[6]

Figure 1-Education patterns for nursing students are changing



Sources: Tables 60 and 65

Initial Programs

There are three main types of educational programs which prepare nurses for licensure as registered nurses: the traditional hospital program leading to a diploma, the college or university program leading to the baccalaureate, and the more recent junior college program leading to the associate degree. (Three universities conduct basic nursing programs leading to a master's degree in nursing and one university conducts a basic nursing program leading to a nursing doctorate.) These programs are called initial, basic, or generic programs of nursing (RN) to distinguish them from post-RN baccalaureate and graduate programs for those nurses who continue their education after becoming registered nurses. The post-RN programs are discussed in the last section of this chapter.

Programs preparing students for licensure as licensed practical nurses (called licensed vocational nurses in California and Texas) are called programs of nursing (LPN/LVN).

Tables 60 to 61 and figure 1 highlight the changing pattern of the various types and levels of nursing education over the years. Each year more opportunities are being made available to students to obtain preparation for a nursing career within the general system of higher education. Baccalaureate programs have shown substantial growth and the number of associate degree programs has increased more than five fold between 1964 and 1979 (table 60).

However, diploma programs have decreased in number every year since 1950 and in 1980 enrolled only about 18 percent of the students. Practical nursing programs on the other hand have remained fairly stable in number since 1970-71. Nevertheless, as seen in table 64, the numbers of licensed practical or vocational nurses who have gone on to graduate from registered nursing programs are substantial--in 1977-78 the RN schools reporting included over 4,800 graduates who had been licensed practical nurses.

National Accredition

All of the initial nursing programs counted--both RN and LPN/LVN--are approved by the appropriate legally authorized State agency, i.e., their graduates are eligible to write the State Board Test Pool Examinations for licensure. The National League for Nursing is the national accrediting agency for nursing programs. More than 70 percent of the 1,389 State-approved RN programs in operation on October 15, 1979 are accredited by the National League for Nursing. By type of program, 93 percent of the diploma, 82 percent of the baccalaureate, and 53 percent of the associate degree programs have attained national accreditation (table 66).

More than 80 percent of the total RN students throughout the country are enrolled in the programs accredited by the National League for Nursing. By program, 96 percent of diploma students, 91 percent of initial baccalaureate students, and 66 percent of associate degree students are enrolled in the nationally accredited programs (table 67).

In 1966 the Department of Practical Nursing Programs of the National League for Nursing initiated a program of national accreditation for LPN/LVN programs. By 1979, 94 of the 1,318 State-approved programs, enrolling more than 10 percent of the total LPN/LVN students, had been accredited (table 68).

State Distribution of Students by Program

A comparison of the 1969 and 1979 figures for total initial RN programs shows that the United States as a whole and all four regions increased their enrollments, admissions, and graduations. The South nearly doubled its students within the 10-year period (tables 70-72).

The overall increase is due to the spectacular rise in the number of associate degree programs and to the continuing growth of the initial baccalaureate. The increases in these programs more than offset the decreases in diploma programs.

The growth of practical nursing programs has leveled off in numbers of schools and students in the United States and in all regions except the South. The South continues to rank highest among the regions in resources for practical nursing education, as shown in tables 73-75.

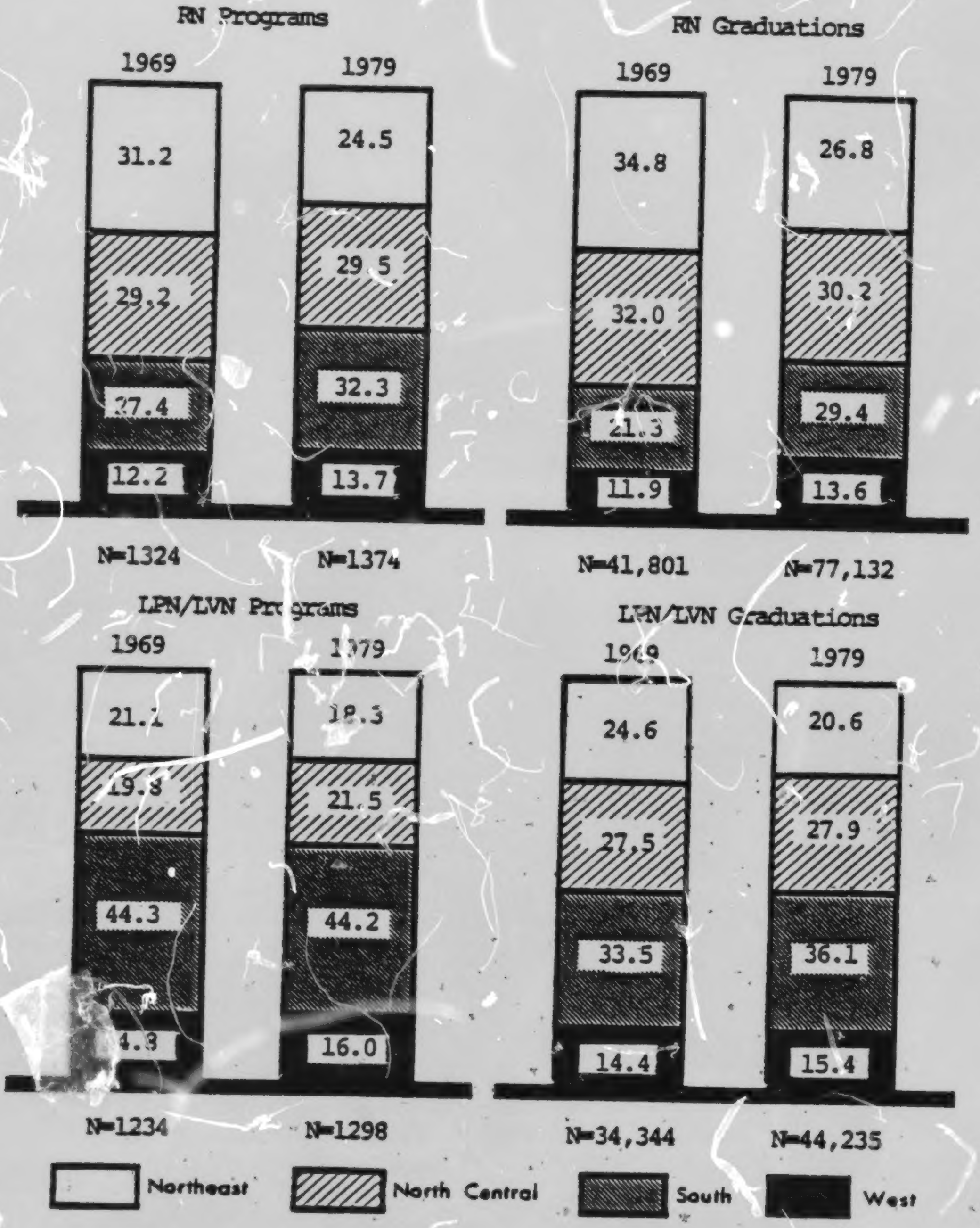
Characteristics of Students

The dramatic increase in the number of nursing students since the early 1960's has been accompanied by less dramatic, but important, changes in the composition of the student body. There are more men students, more students from minority groups, and more from older age groups. The number of men graduated from RN programs in 1978 was nearly ten fold that for 1963; and from LPN/LVN programs nearly twice as many men graduated in 1978 as graduated in 1963 (table 77).

The number of black students who graduated from RN programs in 1978 was three times that for 1963, and the number enrolled over this period of time increased about four fold (table 78). In licensed practical/vocational nursing programs, the number of black students who graduated and enrolled also show substantial increases over this period (table 79).

Detailed student data by ethnic group shows that in 1978 black students admitted to RN programs were 6.6 percent of admissions to all schools. Spanish American admissions were 1.5 percent and American Indian/Oriental were

Figure 2 —The distribution of nursing education programs and graduations varies among the four geographic regions



SOURCES: National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, annual eds., 1970, 1980.

National League for Nursing. State-Approved Schools of Nursing - LPN/LVN. New York, The League, annual eds., 1970, 1980.

1.2 percent of the total. By type of program, minority students were 10.3 percent of the total admissions to baccalaureate programs; 9.7 percent of the total admissions to associate degree programs; and 6.4 percent of the total admissions to diploma programs. Also in 1978, nearly 10 percent of all students admitted to LPN/LVN programs were black, nearly 3 percent were Spanish American and 1 percent were American Indian/Oriental (table 80). Caution should be exercised in the use of the minority data because the response rates are measurably lower for the questions on minority groups than for most other subject areas. Even with the tremendous interest in knowing the distribution of these groups, schools do not always keep records of such characteristics. Also there still appear to be legal and psychological barriers which influence some respondents to omit answers to such questions.[7]

Over the years statisticians concerned with analyzing RN student data have used various bases for computations on current and projected admissions to nursing schools, e.g., 17-to 18-year-old girls, projected from previous data on births and birth rates; estimated numbers of high school graduates, projected from Office of Education trend data; age-specific census information, etc. Such statistics have not been appropriate for predicting admissions to practical nursing schools as these programs generally attracted a wider range of students in older age groups and the requirements of these schools usually did not include high school graduation.

The limitations of using any of the above mentioned bases from which entrants were drawn in recent years become evident when the present characteristics of RN students are studied. More men are entering the profession, the age distribution of the students is changing as older persons are entering or returning to school, and more opportunities for upward mobility in nursing are being made available. In 1977-78 nearly six percent of RN admissions were men. Moreover, although the majority of students entering the nursing programs are under 20 years of age, fairly large proportions are now 25 and over, especially in the associate degree programs (table 69).

Post-RN Baccalaureate and Higher Degree Programs

Many graduates of diploma and associate degree programs have found it necessary, both for their own professional satisfaction and to meet job specifications, to attend a senior college or university in order to complete the academic requirements for a baccalaureate. The current trend in nursing education indicates that most of these graduate nurses enroll in the generic baccalaureate programs; the others enroll in programs developed for graduate nurses only. For statistical clarity, all graduate nurses preparing for their baccalaureate are designated as post-RN baccalaureate and are counted separately from those students who have not previously completed an RN program. (See tables under "Initial Programs.")

The numbers of enrollments in and graduates from the post-RN baccalaureate programs have fluctuated over the years, but the overall trend has been upward, especially since 1971, probably due in some measure to the increasing flexibility in nursing education, which is providing an environment for expanded career-ladder opportunities. In 1978 enrollments of registered nurse students in the baccalaureate programs were more than three times the 1971 figure; graduations also increased more than three fold over this period (table 81). About 60 percent of these graduates had previously graduated from diploma programs, the remainder from associate degree programs.

In nursing, as in other professional disciplines, preparation for supervision, administration, teaching, and clinical specialization, as well as for highly independent action in primary care of patients, requires education at the master's or doctoral level. The upward trend in numbers of nurses taking the advanced preparation necessary for such leadership positions in nursing is encouraging; the 4,271 master's and 53 doctoral graduates of 1978 represent an overall increase of more than 100 percent since 1971.

Table 82 shows the accumulated 12-year total of graduations from master's degree programs for the period 1966-67 through 1977-78 by nursing content area and by functional area of study. During this time, nearly one-half of the graduates majoring in medical-surgical nursing were prepared as advanced practitioners and 45 percent as teachers; in maternal-child nursing and psychiatric-mental health nursing nearly 58 percent and 69 percent, respectively, were prepared as advanced practitioners. The considerable changes over the last few years in the distribution of graduates from the four major functional areas of study are not reflected in the accumulated totals, but are indicative of the trend toward preparation of RN's for expanded roles in nursing practice. Twenty-one institutions offered doctoral programs in nursing in 1978. They graduated 53 nurses in 1977-78 and reported 789 enrollments in the fall of 1978 (table 81).

A total count of all nurses undertaking study in doctoral programs across the country is not available. Educational units in universities, however, reported 34 nurses graduated from 15 doctoral programs other than nursing in 1978-79, and 190 nurses enrolled in 12 programs in the fall of 1979. These figures reflect (a) enrollments of nurses receiving Nurse Scientist Graduate Training Grants for doctoral study in fields related to nursing for the expressed purpose of using this knowledge and experience in the field of nursing, and (b) nurses studying for a doctoral degree in universities where a cooperative arrangement has been made with the school of nursing and departments or units in related fields.

In 1979, 330 baccalaureate and 127 master's programs enrolled graduate nurses as full time or part time students. Tables 83 and 84 show the State and regional distribution of the registered nurses who are continuing their studies or have graduated from the post-RN baccalaureate and higher degree programs.

Table 85 is a composite showing all baccalaureate and higher degrees in nursing conferred by institutions of higher education in selected years since

1926. The baccalaureate degree include those earned in initial programs as well as in post-RN baccalaureate programs. The master's and above degrees include the doctoral degrees in nursing (which are also indicated in parentheses), master's degrees awarded for post-RN graduate study and a few master's degrees awarded by initial nursing programs prior to 1958 and after 1963. The general upward trend in numbers of earned degrees noted prior to 1966 has accelerated since that year both in the United States as a whole and in the four regions. In the five year period--1974 through 1978--earned baccalaureates increased 53 percent and master's increased 60 percent.

For the State data on earned degrees (table 86), Puerto Rico is listed but its graduates are not included in the totals. Puerto Rico and all the States reported earned baccalaureates in 1978. Only 12 States reported master's degrees in nursing in 1950; 41 States recorded such degrees earned in 1978.

Nurse Faculty

The number of nurse faculty teaching in all initial and post-RN programs increased substantially in the past decade and a half in the United States and outlying areas (tables 87 and 88). Coupled with the increase in numbers of nurse faculty has been an increase in the level of faculty educational preparation. Of the total number of full time faculty (20,355) reported by 1,385 programs in all areas in 1979, 74.9 percent held a master's or higher degree. Of 4,781 faculty teaching part time in these programs 52.2 percent held a master's or higher degree.

The detailed distribution of full time and part time faculty according to their highest earned credentials in 1978 is as follows:

Highest credential	Faculty distribution Full time	Part time
Total: Number	20,217	4,457
Percent	100.0	100.0
Diploma	2.8	5.8
Associate	0.4	1.1
Baccalaureate	29.0	45.9
Master's degree	62.5	44.3
Doctorate	5.3	2.9

[1] Based on replies from 1,340 programs.

SOURCE: National League for Nursing, NLN Nursing Data Book, 1979. New York, The League, 1980

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10. National League for Nursing. NLN Nursing Data Book 1980. New York, The League, 1981.

Table 54-Schools offering initial programs in nursing (RN), by region and State: selected years 1900-79

Region and State	Schools1/								
	1900	1910	1920	1931	1940	1950	1960	1970	1979
United States	432	1,105	1,755	1,844	1,304	1,193	1,114	1,330	1,354
Northeast	238	436	587	566	410	395	370	412	333
North Central	128	354	582	583	410	365	343	390	401
South	44	212	421	539	367	320	288	360	434
West	22	103	165	156	117	113	113	168	186
Alabama	1	7	26	36	27	16	13	18	32
Alaska	–	–	–	–	–	–	–	1	2
Arizona	–	–	2	3	4	5	5	13	14
Arkansas	–	5	16	23	10	8	7	9	18
California	10	47	68	53	36	40	56	82	84
Colorado	5	15	20	20	16	10	9	14	12
Connecticut	7	19	25	25	19	21	19	24	19
Delaware	2	2	3	6	7	7	6	6	7
District of Columbia	8	10	14	12	7	8	6	9	7
Florida	1	5	12	18	14	14	18	29	33
Georgia	2	25	32	39	15	15	18	26	32
Hawaii	–	–	–	–	–	3	3	2	4
Idaho	–	3	7	10	8	8	4	5	6
Illinois	34	74	114	134	95	87	72	78	82
Indiana	7	29	32	33	27	27	24	27	28
Iowa	10	35	59	46	29	26	26	30	35
Kansas	5	15	42	51	37	27	22	22	26
Kentucky	3	14	23	31	16	15	16	22	26
Louisiana	3	7	14	17	14	17	12	15	16
Maine	4	13	28	32	18	12	6	6	9
Maryland	9	21	26	28	26	22	21	26	22
Massachusetts	53	77	96	102	69	61	56	64	50
Michigan	17	42	44	48	30	26	30	44	45
Minnesota	13	29	57	59	28	27	25	28	24
Mississippi	–	5	22	37	33	21	10	17	20
Missouri	14	30	48	39	30	27	28	34	34
Montana	–	6	14	16	10	6	4	5	4
Nebraska	2	18	33	19	14	14	14	13	12
Nevada	–	–	1	–	–	–	1	2	4
New Hampshire	8	15	23	23	14	13	12	10	8
New Jersey	19	33	46	52	49	42	39	43	41
New Mexico	–	1	2	2	2	1	3	4	10
New York	78	137	161	152	105	113	118	135	102
North Carolina	–	26	53	59	41	40	33	42	48
North Dakota	–	4	15	17	15	10	10	12	9
Ohio	17	53	81	80	68	63	59	69	71
Oklahoma	–	5	25	22	14	12	10	13	21
Oregon	2	4	13	13	9	10	6	8	16
Pennsylvania	63	123	183	154	118	117	109	117	94
Rhode Island	5	7	11	14	7	7	7	8	7
South Carolina	2	10	23	26	17	18	15	9	13
South Dakota	–	7	18	21	13	7	10	9	8
Tennessee	2	9	22	30	23	16	18	22	28
Texas	1	20	40	70	45	34	34	44	56
Utah	1	4	7	6	6	8	6	6	4
Vermont	1	12	14	12	11	9	4	5	3
Virginia	9	23	37	45	27	34	33	37	38
Washington	3	20	26	27	25	22	15	24	23
West Virginia	1	18	33	40	31	23	18	16	17
Wisconsin	9	18	39	36	24	24	23	24	27
Wyoming	1	3	5	6	1	–	1	2	3
Guam	–	–	–	–	–	–	–	1	1
Puerto Rico	–	–	–	–	–	10	9	11	11
Virgin Islands	–	–	–	–	–	–	–	1	1

1/ Data for 1950 and later are for State-Approved schools of nursing. Data for the other years include some nonapproved schools. The number of these nonapproved schools was very small in 1940, but was a larger part of the total number of schools in earlier years due to the less widespread prevalence of State laws governing the requirements for schools of nursing.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, 1971, p. 106; 1980, p. 82.

Table 55-Student enrollment[1] in schools offering initial programs in nursing (RN), by region and State: selected years 1900-79

Region and State	Student enrollment[2]								
	1900	1910	1920	1930[3]	1940	1950	1960	1970	1979
United States	11,164	31,851	54,953	100,419	97,345	98,203	118,163	[illegible]	234,659
Northeast	6,331	14,870	21,408	36,569	33,742	34,803	41,535	[illegible]	70,444
North Central	3,384	9,652	18,035	34,408	31,826	32,134	39,785	49,695	67,476
South	912	4,389	9,817	19,591	21,952	22,318	25,468	39,156	68,690
West	537	2,940	5,693	9,851	9,825	8,948	11,375	21,193	28,049
Alabama	37	184	537	1,155	1,231	976	1,165	2,019	4,940
Alaska	—	—	—	—	—	—	—	32	331
Arizona	—	—	40	178	335	402	732	1,594	2,025
Arkansas	—	89	210	503	425	621	653	1,035	2,047
California	346	1,573	3,051	4,724	4,077	3,444	4,918	10,259	13,344
Colorado	73	413	661	1,206	1,127	876	990	1,682	2,031
Connecticut	183	544	[illegible]	1,795	1,864	[illegible]	2,644	2,881	3,517
Delaware	22	35	[illegible]	219	369	422	407	638	1,304
District of Columbia	254	427	1,208	1,183	890	650	810	1,102	2,036
Florida	10	67	178	678	916	950	1,587	3,618	6,199
Georgia	65	424	738	1,235	1,074	1,597	2,028	2,615	3,848
Hawaii	—	—	—	—	—	300	362	283	392
Idaho	—	30	108	272	394	421	241	409	678
Illinois	1,012	2,916	4,004	7,466	7,046	6,586	7,638	8,823	12,454
Indiana	126	541	1,017	2,132	2,366	2,326	3,141	3,859	6,224
Iowa	230	929	1,772	2,240	2,099	2,047	2,393	2,702	4,081
Kansas	71	200	651	1,592	1,690	1,493	1,519	1,562	2,330
Kentucky	56	198	417	1,071	974	1,162	1,343	2,180	3,437
Louisiana	59	282	565	1,048	1,497	1,565	1,485	2,084	4,172
Maine	77	315	508	903	840	776	695	703	1,334
Maryland	86	764	903	1,778	2,085	1,815	2,402	3,391	3,817
Massachusetts	[illegible]	2,695	4,687	6,668	5,672	5,560	6,500	8,641	8,949
Michigan	734	1,297	1,851	3,676	2,907	3,341	4,321	6,487	8,449
Minnesota	296	[illegible]	2,266	3,776	3,231	3,341	3,689	4,593	4,553
Mississippi	—	[illegible]	308	[illegible]	793	778	525	936	2,598
Missouri	321	750	1,522	2,176	2,205	2,439	3,266	4,097	5,433
Montana	—	119	292	551	619	555	549	679	895
Nebraska	24	362	726	1,212	1,070	1,114	1,378	2,043	2,070
Nevada	—	—	9	—	—	—	43	245	470
New Hampshire	113	425	399	766	727	616	652	895	1,050
New Jersey	356	891	1,329	[illegible]	3,817	2,855	3,758	5,102	7,569
New Mexico	—	12	3	61	65	46	119	391	1,000
New York	2,304	4,775	6,433	11,724	10,080	11,074	13,175	19,789	29,834
North Carolina	—	330	788	1,660	1,821	2,515	2,756	3,616	5,807
North Dakota	—	55	384	727	831	774	752	975	1,313
Ohio	350	1,292	2,508	5,389	5,732	5,500	7,816	8,871	12,506
Oklahoma	—	48	427	798	797	790	891	1,059	2,348
Oregon	50	159	334	726	765	804	935	1,448	1,898
Pennsylvania	1,611	4,673	6,119	9,811	9,625	10,754	12,865	13,111	15,460
Rhode Island	139	371	573	1,396	585	531	858	1,318	2,083
South Carolina	21	272	436	808	1,020	1,047	1,200	1,227	2,392
South Dakota	—	80	288	541	613	811	824	1,309	1,502
Tennessee	22	172	[illegible]	1,351	1,780	1,531	2,026	2,728	5,341
Texas	18	364	1,103	2,669	3,331	2,542	2,702	6,535	10,769
Utah	26	135	373	441	487	429	646	731	1,001
Vermont	8	181	212	358	532	361	388	440	648
Virginia	[illegible]	390	809	1,661	1,673	2,119	2,280	2,870	5,385
Washington	36	453	805	1,525	1,912	1,671	1,753	3,230	3,698
West Virginia	12	265	527	1,116	1,276	1,228	1,208	1,503	2,250
Wisconsin	200	420	1,046	3,481	2,036	2,362	3,048	4,374	6,561
Wyoming	6	46	117	167	44	—	87	210	286
Guam	—	—	—	—	—	—	—	51	49
Puerto Rico	—	—	—	—	—	509	686	1,534	2,844
Virgin Islands	—	—	—	—	—	—	—	36	28

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[1] Enrollments are for schools in Table 54.

[2] Figures for 1900-40 are fall enrollments; those for 1950 are as of January 1; the 1960, 1970, and 1976 figures are as of October 15 of those years.

[3] High student enrollment may have been related to economic conditions.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, 1971, p. 107; 1980, p. 83.

Table 56-Admissions to schools offering initial programs in nursing (RN), by region and State: selected years 1936-79

Region and State	Academic years July 1 - June 30		Calendar years		Academic years September 1 - August 31			Academic years August 1 - July 31		
	1935-36	1944-45	1945	1955	1959-60	1964-65	1969-70	1969-70[1]	1974-75	1978-79
United States	28,843	61,471	56,567	46,267	48,919	57,180	74,598	69,604	109,020	107,476
Northeast	10,275	19,718	18,454	15,396	16,830	20,072	22,140	21,476	30,996	28,8[illegible]
North Central	9,358	20,631	18,523	15,601	16,433	17,527	22,357	20,820	30,641	30,481
South	6,466	15,208	14,009	10,628	10,841	12,600	20,415	17,680	33,942	34,493
West	2,744	5,914	5,581	4,642	4,815	6,981	9,686	9,628	13,441	13,671
Alabama	316	633	642	416	481	561	855	851	2,336	2,737
Alaska	--	--	--	--	--	--	15	15	89	141
Arizona	61	183	194	200	318	460	668	667	1,573	1,093
Arkansas	108	309	286	315	320	246	674	364	902	1,006
California	1,109	2,028	1,929	1,968	2,124	3,551	5,007	4,945	5,977	6,471
Colorado	329	803	649	487	431	614	695	804	780	968
Connecticut	617	1,213	1,125	1,005	1,047	1,209	1,054	1,054	1,261	1,412
Delaware	118	227	250	167	166	128	278	254	451	493
District of Columbia	344	595	525	247	277	368	459	459	612	680
Florida	237	567	599	553	689	1,161	1,936	1,934	3,264	3,4[illegible]
Georgia	348	1,256	1,166	788	805	937	1,212	1,179	2,602	2,359
Hawaii	---	---	---	132	150	154	138	17	209	219
Idaho	109	253	196	147	123	131	205	183	357	383
Illinois	2,001	4,395	3,939	3,008	3,304	3,338	3,752	3,524	5,917	5,838
Indiana	657	1,653	1,483	1,186	1,446	1,347	1,821	1,741	3,028	2,590
Iowa	[illegible]	1,162	910	1,014	869	967	1,290	1,068	1,720	1,994
Kansas	485	1,011	920	639	754	590	996	706	1,128	1,277
Kentucky	259	645	547	508	524	768	972	1,292	2,014	1,823
Louisiana	502	996	944	783	658	858	868	866	2,033	1,744
Maine	310	489	539	265	283	270	236	236	569	546
Maryland	641	1,236	1,183	833	1,073	1,193	1,424	1,398	1,949	1,849
Massachusetts	1,740	3,046	2,896	2,305	2,506	2,946	3,350	3,344	4,345	3,577
Michigan	1,004	2,067	2,159	1,835	1,817	2,286	3,387	3,283	4,150	3,980
Minnesota	810	2,314	1,731	1,446	1,436	1,341	1,754	1,776	2,281	2,196
Mississippi	224	447	294	234	187	363	454	454	1,283	1,398
Missouri	694	1,544	1,330	1,199	1,411	1,399	1,846	1,678	2,476	2,434
Montana	219	332	296	280	256	255	273	273	404	306
Nebraska	332	488	575	509	502	680	745	772	853	843
Nevada	---	---	---	---	26	48	116	116	97	205
New Hampshire	190	396	360	264	281	360	309	318	519	346
New Jersey	1,145	2,122	2,036	1,311	1,506	1,691	2,131	2,161	3,393	3,271
New Mexico	20	54	60	35	61	68	147	194	457	457
New York	2,938	5,913	5,421	4,973	5,150	7,111	8,351	8,261	13,710	12,247
North Carolina	532	1,347	1,330	1,222	1,258	1,359	1,640	1,545	2,859	2,762
North Dakota	209	433	484	371	342	358	538	436	518	625
Ohio	1,618	3,813	3,385	2,851	3,008	3,350	3,964	3,626	5,510	5,483
Oklahoma	248	603	562	361	437	334	937	578	1,290	1,116
Oregon	191	693	658	353	383	411	627	627	926	979
Pennsylvania	2,975	5,827	5,581	4,901	5,592	5,827	6,013	5,406	6,101	6,324
Rhode Island	207	398	237	242	284	432	521	521	808	823
South Carolina	290	752	637	583	572	472	582	[illegible]	1,136	1,184
South Dakota	192	466	411	381	328	382	601	[illegible]	619	665
Tennessee	477	1,231	1,124	792	866	829	1,418	1,2[illegible]2	2,826	2,512
Texas	1,028	2,191	1,852	1,394	1,055	1,299	4,641	2,8[illegible]0	4,909	5,784
Utah	145	468	371	267	310	332	380	372	437	507
Vermont	153	314	259	130	181	226	175	175	290	285
Virginia	453	1,131	1,150	940	999	1,034	1,143	1,143	2,356	2,541
Washington	549	1,062	1,197	740	599	893	1,332	1,332	2,035	1,806
West Virginia	341	1,042	918	492	474	690	922	700	1,120	1,080
Wisconsin	767	1,285	1,196	1,162	1,216	1,489	1,663	1,699	2,441	2,556
Wyoming	12	38	31	33	34	64	83	83	100	136
Guam	---	---	---	---	---	---	30	30	52	35
Puerto Rico	---	---	---	231	275	424	700	633	966	1,186
Virgin Islands	---	---	---	---	---	---	21	21	30	20

[1] Adjusted for overreporting and for the new academic period.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, 1976, p. 63; 1980, p. 83.

Table 57-Graduations from schools offering initial programs in nursing (RN), by region and State: selected years 1900-79

Region and State	Academic year 1/ ending June 30			Calendar year		Academic year 1/ ending Aug. 31			Academic year 1/ ending July 31	
	1900	1931	1940	1945	1955	1960	1965	1970	1975	1979
United States	3,546	[illegible]	[illegible]	31,721	28,603	29,895	34,497	43,103	73,915	77,132
Northeast	2,033	10,112	8,113	11,609	10,682	10,682	12,260	14,328	21,659	20,649
North Central	1,080	[illegible]	[illegible]	10,349	9,751	10,346	11,651	13,642	22,558	23,285
South	266	4,920	4,978	7,214	5,660	6,076	7,054	9,422	19,976	22,693
West	167	2,584	1,981	2,549	2,510	2,791	3,532	5,711	9,722	[illegible]
Alabama	8	267	295	288	222	256	314	418	1,123	1,589
Alaska	—	—	—	—	—	—	—	—	40	43
Arizona	—	32	49	71	105	65	167	372	756	784
Arkansas	—	136	80	138	147	140	144	183	517	676
California	109	1,324	704	998	1,138	1,234	1,809	3,006	4,825	5,231
Colorado	25	305	216	326	216	235	331	426	555	662
Connecticut	63	533	477	714	652	690	642	668	1,182	1,072
Delaware	1	58	88	149	114	79	123	134	354	362
District of Columbia	60	252	189	248	120	187	250	235	338	389
Florida	3	209	183	212	260	337	68	1,083	2,221	2,456
Georgia	7	327	231	629	337	459	605	645	1,511	1,472
Hawaii	—	—	—	—	90	102	66	104	136	148
Idaho	—	65	98	111	101	53	70	99	247	267
Illinois	318	1,818	1,625	2,459	2,003	1,932	2,193	2,440	4,023	4,507
Indiana	45	504	564	738	672	787	930	1,037	1,982	2,053
Iowa	61	615	469	666	676	695	722	752	1,352	1,597
Kansas	26	444	504	496	483	428	516	557	895	944
Kentucky	26	251	237	267	320	327	334	596	1,273	1,312
Louisiana	25	291	293	455	306	321	306	435	812	1,027
Maine	31	276	228	321	188	176	188	189	353	414
Maryland	59	520	504	722	542	573	754	846	1,427	1,430
Massachusetts	498	1,663	1,276	1,731	1,668	1,716	1,912	2,064	3,227	2,871
Michigan	279	928	668	1,043	994	1,186	1,336	1,890	3,175	3,146
Minnesota	106	988	765	906	1,075	1,027	1,142	1,395	1,833	1,749
Mississippi	—	149	212	200	147	114	123	253	715	848
Missouri	[illegible]	576	562	669	729	855	925	1,176	1,899	1,805
Montana	—	128	168	174	132	224	120	173	[illegible]	251
Nebraska	10	274	275	302	312	316	441	551	769	757
Nevada	—	—	—	—	—	—	9	54	129	132
New Hampshire	[illegible]	254	135	213	175	152	186	207	307	333
New Jersey	145	848	932	1,078	928	923	1,139	1,350	2,125	2,304
New Mexico	—	5	19	16	12	31	37	78	281	341
New York	721	3,172	2,345	3,579	3,331	3,405	4,240	5,268	8,643	8,112
North Carolina	—	391	434	813	636	677	746	853	1,640	1,870
North Dakota	—	186	[illegible]	294	238	199	223	270	506	426
Ohio	111	1,358	1,329	1,829	1,672	1,905	2,242	2,342	3,988	4,126
Oklahoma	—	183	[illegible]	300	217	237	211	228	732	806
Oregon	12	181	[illegible]	179	189	[illegible]	228	397	717	815
Pennsylvania	477	2,625	2,433	3,619	3,497	[illegible]	3,556	4,081	5,181	4,797
Rhode Island	46	667	136	215	171	209	263	338	428	536
South Carolina	8	[illegible]	225	341	296	317	280	287	595	730
South Dakota	—	[illegible]	148	212	177	244	[illegible]	297	446	445
Tennessee	8	[illegible]	358	479	491	496	425	645	1,355	1,698
Texas	8	615	810	1,018	598	659	798	1,452	3,203	3,619
Utah	10	113	121	167	135	156	186	232	368	419
Vermont	4	74	146	139	72	84	134	163	213	210
Virginia	51	[illegible]	349	569	583	604	692	759	1,390	1,658
Washington	9	396	401	495	392	426	495	742	1,320	1,323
West Virginia	2	257	[illegible]	386	324	293	268	369	770	751
Wisconsin	55	511	495	735	720	772	784	935	1,690	1,730
Wyoming	2	35	27	12	—	10	14	28	68	89
Guam	—	—	—	—	—	—	—	6	20	38
Puerto Rico	—	—	—	—	126	218	189	522	585	746
Virgin Islands	—	—	—	—	—	—	—	8	16	16

1/ Twelve-month periods ending on the dates stated.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, 1966, p. 65; 1971, p. 107; 1976, p. 63; and 1980, p. 83.

Table 58-Programs, enrollments, admissions and graduations in schools of nursing (RN), by region and State: 1979

Region and State	Schools Oct. 1979	Programs Oct. 1979	Enrollments Oct. 1979	Admissions 1978-79	Graduations 1978-79
United States	1,354	1,374	234,659	107,476	77,132
Northeast	333	337	70,444	28,831	20,649
North Central	401	405	67,476	30,481	23,285
South	434	444	68,690	34,493	22,693
West	186	188	28,049	13,671	10,505
Alabama	32	34	4,940	2,737	1,589
Alaska	2	2	331	141	43
Arizona	14	14	2,025	1,093	784
Arkansas	18	19	2,047	1,006	676
California	84	84	13,344	6,471	5,231
Colorado	12	12	2,031	968	664
Connecticut	19	19	3,517	1,412	1,071
Delaware	7	7	1,304	493	362
District of Columbia	7	7	2,036	680	389
Florida	33	33	6,199	3,425	2,456
Georgia	32	33	3,848	2,359	1,472
Hawaii	4	5	392	219	148
Idaho	6	6	678	383	267
Illinois	82	82	12,454	5,838	4,507
Indiana	28	31	6,224	2,590	2,053
Iowa	35	35	4,081	1,994	1,597
Kansas	26	26	2,330	1,277	944
Kentucky	26	27	3,437	1,823	1,312
Louisiana	16	16	4,172	1,744	1,027
Maine	9	9	1,334	546	414
Maryland	22	22	3,817	1,849	1,430
Massachusetts	50	52	8,949	3,577	2,871
Michigan	45	45	8,449	3,980	3,146
Minnesota	24	24	4,553	2,196	1,749
Mississippi	20	22	2,598	1,398	848
Missouri	34	35	5,433	2,434	1,805
Montana	4	4	895	306	251
Nebraska	12	12	2,070	843	757
Nevada	4	4	470	205	132
New Hampshire	8	8	1,050	346	333
New Jersey	41	41	7,569	3,271	2,304
New Mexico	10	10	1,000	457	341
New York	102	103	29,834	12,247	8,112
North Carolina	48	48	5,807	2,762	1,870
North Dakota	9	9	1,313	625	426
Ohio	71	71	12,506	5,483	4,126
Oklahoma	21	21	2,348	1,116	806
Oregon	16	16	1,898	979	815
Pennsylvania	94	94	15,460	6,324	4,797
Rhode Island	7	7	2,083	823	536
South Carolina	13	15	2,392	1,184	730
South Dakota	8	8	1,502	665	445
Tennessee	28	29	5,341	2,512	1,698
Texas	56	56	10,769	5,784	3,619
Utah	4	5	1,001	507	419
Vermont	3	4	648	285	210
Virginia	38	38	5,385	2,541	1,658
Washington	23	23	3,698	1,806	1,323
West Virginia	17	17	2,250	1,080	751
Wisconsin	27	27	6,561	2,556	1,730
Wyoming	3	3	286	136	89
Guam	1	1	49	35	38
Puerto Rico	11	13	2,844	1,186	746
Virgin Islands	1	1	28	20	16

SOURCE: National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, 1980, p.83.

Table 59-Percentage distribution of initial nursing programs (RN) by size of student enrollment: 1969-79

Size of enrollment	Oct. 1969	Oct. 1970	Oct. 1971	Oct. 1972	Oct. 1973	Oct. 1974	Oct. 1975	Oct. 1976	Oct. 1977	Oct. 1978	Oct. 1979
Total	1339	1355	1363	1377	1373	1372	1375	1373	1372	1374	1389
0[1]	0.8	0.4	0.7	0.5	0.4	0.4	0.3	0.9	0.5	0.7	0.7
1-49	18.1	14.7	10.9	9.6	8.1	6.6	7.1	5.8	6.8	6.8	8.6
50-99	36.6	36.3	32.8	26.2	22.7	22.9	22.6	22.9	22.3	24.0	25.0
100-149	22.5	24.3	25.2	25.7	28.1	26.1	24.4	24.1	24.3	24.4	24.8
150-199	10.4	11.3	13.4	16.4	15.5	17.8	17.2	16.7	16.1	16.0	14.5
200-249	5.4	5.9	7.2	8.4	9.8	8.8	10.5	10.7	11.0	9.6	9.4
250-299	2.2	2.5	3.2	4.7	5.0	5.0	4.6	5.6	6.4	5.9	4.4
300-349	1.7	1.6	2.3	2.9	3.6	4.5	4.3	3.9	3.4	3.4	4.2
350-399	0.7	0.9	1.2	1.5	1.2	1.7	2.5	3.0	3.1	2.6	2.3
400-449	0.6	0.8	0.6	0.8	1.3	1.2	1.3	1.3	0.8	1.2	1.2
450-499	0.4	0.7	1.0	0.7	1.4	0.9	1.0	0.9	1.2	1.4	1.4
500 and over	0.6	0.6	1.5	2.6	2.9	4.1	4.2	4.2	4.1	4.0	3.4
Average enrollment[2]	114	122	138	155	169	178	182	182	181	176	171

[1] New programs which had not admitted students at reporting date.
[2] Total enrollments divided by number of programs reporting enrollments.

SOURCE: National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, Annual eds.: 1970-80.

Table 60-State-approved schools of nursing (RN) by type of program: 1950-79

Year	Number of schools[1]	Number of programs[2]			
		Total	Baccalaureate[3]	Diploma	Associate degree
January:					
1950	1,190	1,314	195	1,118	1
1952	1,155	1,263	198	1,065	[4]
1953	1,125	1,236	198	1,017	21
1954	1,124	1,237	215	992	30
1955	1,129	1,161	146	981	34
October:					
1955	1,125	1,141	155	967	19
1956	1,115	1,137	161	956	20
1957	1,118	1,138	166	944	28
1958	1,125	1,145	172	935	38
1959	1,119	1,137	171	918	48
1960	1,123	1,137	172	908	57
1961	1,118	1,126	174	883	69
1962	1,128	1,136	178	874	84
1963	1,142	1,148	183	860	105
1964	1,153	1,158	188	840	130
1965	1,191	1,193	198	821	174
1966	1,219	1,225	210	797	218
1967	1,262	1,269	221	767	281
1968	1,287	1,293	235	728	330
1969	1,328	1,339	254	695	390
1970	1,343	1,355	270	641	444
1971	1,350	1,363	285	587	491
1972	1,363	1,377	293	543	541
1973	1,359	1,373	305	494	574
1974	1,359	1,372	313	461	598
1975	1,360	1,375	329	428	618
1976	1,349	1,373	341	390	642
1977	1,352	1,372	349	367	656
1978	1,353	1,374	353	344	677
1979	1,367	1,389	368	333	688

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[1] All years include Hawaii and Puerto Rico, Virgin Islands beginning in 1965, Guam beginning 1966, and Alaska in 1968. Numbers include only schools with students enrolled on reporting date.

[2] Some schools offer more than one program.

[3] Includes initial program leading to a master's degree.

[4] Included with diploma programs.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing, Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, Annual eds.: 1974-80.

Table 61-Students enrolled in State-approved schools of nursing (RN) by type of program: 1946-79[1]

Year	All programs	Type of program			Percent enrolled by program		
		Baccalaureate[2]	Diploma	Associate degree	Baccalaureate[2]	Diploma	Associate degree
On January 1:							
1946	128,828	7,174	121,654	---	5.6	94.4	---
1947	106,900	5,475	101,425	---	5.1	94.9	---
1948	91,643	6,046	85,597	---	6.6	93.4	---
1949	88,817	6,635	82,182	---	7.5	92.5	---
On October 15:							
1950	97,903	8,483	89,420	---[3]	8.7	91.3	---[3]
1951	102,509	9,184	93,325	---[3]	9.0	91.0	---[3]
1952	101,809	10,921	90,888	---[3]	10.7	89.3	---[3]
1953	102,019	12,711	89,308	---[3]	12.5	87.5	---[3]
1954	103,019	14,654	86,902	1,463	14.2	84.4	1.4
1955	107,572	14,989	91,076	1,507	13.9	84.7	1.4
1955	114,423	17,437	95,902	1,084	15.2	83.8	.9
1956	114,674	18,622	94,920	1,132	16.2	82.8	1.0
1957	112,989	18,640	92,989	1,360	16.5	82.3	1.2
1958	113,518	19,195	92,419	1,904	16.9	81.4	1.7
1959	115,057	19,813	92,899	2,345	17.2	80.7	2.0
1960	118,849	20,783	94,812	3,245	17.5	79.8	2.7
1961	123,012	22,546	96,606	3,860	18.3	78.5	3.1
1962	123,861	23,656	95,278	4,927	19.1	76.9	4.0
1963	124,744	25,117	93,271	6,356	20.1	74.8	5.1
1964	129,269	27,667	93,089	8,513	21.4	72.0	6.6
1965	135,702	30,378	93,760	11,564	22.4	69.1	8.5
1966	139,070	33,081	90,651	15,338	23.8	65.2	11.0
1967	141,948	36,599	84,413	20,936	25.8	59.5	14.7
1968	145,588	40,341	77,776	27,471	27.7	53.4	18.9
1969	150,795	43,460	72,798	34,537	28.8	48.3	22.9
1970	164,545	48,897	71,055	44,593	29.7	43.2	27.1
1971	187,551	59,785	71,466	56,300	31.9	38.1	30.0
1972	213,127	73,890	71,694	67,543	34.7	33.6	31.7
1973	232,589	85,156	68,760	78,673	36.6	29.6	33.8
1974	244,486	94,951	64,083	85,452	38.8	26.2	35.0
1975	250,385	100,680	60,213	89,492	40.2	24.0	35.8
1976	249,541	101,046	56,091	92,404	40.5	22.5	37.0
1977	247,739	102,494	52,858	92,387	41.4	21.3	37.3
1978	242,259	101,239	48,059	92,961	41.8	19.8	38.4
1979	237,580	100,444	43,651	93,485	42.3	18.4	39.3

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[1] Includes 49 States and District of Columbia for all years, Puerto Rico beginning in 1953, Virgin Islands beginning in 1965, Guam beginning in 1966, and Alaska beginning in 1968.

[2] Includes a few students enrolled in initial program leading to a master's degree.

[3] Included with diploma enrollments.

SOURCES: American Nurses' Association. Facts About Nursing: A Statistical Summary. New York, The Association. Annual eds.: 1953, p. 49; 1954, p. 55; 1955-56, p. 76; 1965, p. 82; and 1967, p. 101.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League. Annual eds.: 1968-80.

Table 62-Admissions to schools offering initial programs in registered nursing and licensed practical/vocational nursing, by type of program: 1952-79[1]

Year	RN programs				LPN/LVN programs
	Baccalaureate[2]	Diploma	Associate degree	Total	Total
Calendar year					
1952	5,402	37,140	...[3]	42,542	...
1953	5,771	36,947	609	43,327	...
1954	6,083	38,106	741	44,930	...
1955	6,985	38,884	629	46,498	...
Academic year[4]					
1955-56	6,887	37,763	559	45,209	...
1956-57	7,106	37,571	578	45,255	...
1957-58	6,866	36,402	953	44,221	...
1958-59	7,275	37,722	1,266	46,263	23,116
1959-60	7,555	40,013	1,598	49,166	23,060
1960-61	8,700	38,702	2,085	49,487	24,955
1961-62	9,044	38,257	2,504	49,805	26,660
1962-63	9,597	36,434	3,490	49,521	30,585
1963-64	10,270	37,936	4,461	52,667	34,131
1964-65	11,835	39,609	6,160	57,604	36,489
1965-66	13,159	38,904	8,638	60,701	38,755
1966-67	14,070	33,283	11,347	58,700	41,269
1967-68	14,891	31,628	14,870	61,389	45,076
1968-69	15,983	29,267	18,907	64,157	49,107
1969-70	19,048	30,718	25,583	75,349	55,635
1969-70[5]	18,350	28,733	23,205	70,288	55,635
1970-71	20,413	28,980	29,889	79,282	60,057
1971-72	27,357	29,801	36,996	94,154	61,680
1972-73	30,478	29,848	44,387	104,713	60,475
1973-74	32,672	26,943	48,595	108,210	60,249
1974-75	35,192	24,696	50,180	110,068	61,557
1975-76	36,656	23,622	53,033	113,311	62,272
1976-77	36,947	22,243	54,289	113,479	60,975
1977-78	37,664	20,611	53,653	111,928	61,586
1978-79	36,087	18,499	54,131	108,717	57,953

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[1] RN programs include 49 States and the District of Columbia for all years, Puerto Rico beginning 1953, Virgin Islands beginning 1965, Guam beginning 1966, and Alaska beginning 1968. PN programs include all 50 States, the District of Columbia, and Puerto Rico for all years, American Samoa beginning 1961, Virgin Islands from 1961 to 1971, and Guam beginning 1971.

[2] Includes a few students admitted to initial program leading to a master's degree.

[3] Included with diploma admissions.

[4] Academic year September 1 - August 31 through 1969-70; August 1 - July 31 thereafter.

[5] Admissions adjusted to academic period August 1, 1969 - July 31, 1970.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, Annual eds.: 1958-80.

National League for Nursing. State-Approved Schools of Nursing - LPN/LVN. New York, The League, Annual eds.: 1960-80.

Table 6[illegible]-Graduations from schools offering initial programs in registered nursing and licensed practical/vocational nursing, by type of program: 1952-79[1]

Year	RN programs				LPN/LVN programs
	Baccalaureate[2]	Diploma	Associate degree	Total	Total
Calendar year					
1952	1,998	26,720	298	29,016	...
1953	2,224	26,824	260	29,308	...
1954	2,398	25,797	344	28,539	...
1955	2,704	25,826	199	28,729	...
Academic year[3]					
1955-56	3,156	26,828	252	30,236	10,641
1956-57	3,516	26,141	276	29,933	10,666
1957-58	3,671	26,314	425	30,410	12,407
1958-59	3,943	25,907	462	30,312	14,573
1959-60	4,136	25,188	789	30,11[illegible]	16,491
1960-61	4,039	25,311	917	30,267	16,635
1961-62	4,300	25,727	1,159	31,186	18,106
1962-63	4,481	26,438	1,479	32,398	19,621
1963-64	5,059	28,238	1,962	35,259	22,761
1964-65	5,381	26,795	2,510	34,686	24,331
1965-66	5,498	26,278	3,349	35,125	25,688
1966-67	6,131	27,352	4,654	38,237	27,644
1967-68	7,145	28,197	6,213	41,555	30,833
1968-69	8,381	25,114	8,701	42,196	34,864
1969-70	9,105	22,856	11,678	43,639	37,128
1970-71	9,913	22,334	14,754	47,001	38,556
1971-72	11,027	21,592	19,165	51,784	44,446
1972-73	13,132	21,445	24,850	59,427	46,456
1973-74	17,049	21,280	29,299	67,628	45,863
1974-75	20,241	21,673	32,[illegible]22	74,536	46,080
1975-76	22,678	19,861	35,095	77,633	48,081
1976-77	23,632	18,014	36,815	78,461	47,297
1977-78	24,807	17,131	37,069	78,697	45,991
1978-79	25,349	15,820	36,763	77,932	45,066

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[1] RN programs include 49 States and the District of Columbia for all years, Puerto Rico beginning 1953, Virgin Islands beginning 1965, Guam beginning 1966, and Alaska beginning 1968. PN programs include all 50 States, the District of Columbia, and Puerto Rico for all years, American Samoa beginning 1961, Virgin Islands from 1961 to 1971, and Guam beginning 1971.

[2] Includes a few students granted master's degrees from an initial program.

[3] Academic year September 1 - August 31 through 1969-70; August 1 - July 31 thereafter.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, Annual eds.: 1969-80.

National League for Nursing. State-Approved Schools of Nursing - LPN/LVN. New York, The League, Annual eds.: 1969-80.

Table 64-Admissions, graduations, and enrollments of licensed practical or vocational nurses in schools of nursing (RN) by type of program: selected years 1968-69 through 1977-78

Type of program by year 1/	LPN/LVNs admitted		LPN/LVNs graduated		LPN/LVNs enrolled	
	Number	Percent of total 2/	Number	Percent of total 2/	Number	Percent of total 2/
Total						
1968-69	2,724	4.9	1,374	3.8	4,625	3.5
1971-72	4,427	6.2	2,794	7.3	6,900	4.0
1974-75	5,330	9.0	4,041	11.1	7,674	5.4
1977-78	6,369	6.3	4,849	6.9	8,808	4.0
Baccalaureate						
1968-69	63	.5	15	.2	176	.5
1971-72	193	1.2	84	1.2	481	1.0
1974-75	330	2.7	120	2.5	605	1.3
1977-78	482	1.3	265	1.1	736	0.8
Diploma						
1968-69	538	2.1	317	1.5	1,032	1.6
1971-72	1,013	4.1	576	3.6	1,428	2.3
1974-75	950	7.4	864	9.5	1,478	4.1
1977-78	668	3.5	568	3.8	1,398	3.1
Associate degree						
1968-69	2,123	12.0	1,042	13.0	3,417	10.5
1971-72	3,221	10.6	2,134	14.1	4,991	8.7
1974-75	4,050	11.9	3,057	13.7	5,591	9.3
1977-78	5,219	11.1	4,016	12.4	6,674	8.3

1/ Admissions and graduations are for the academic years ending August 31, 1969 and July 31, 1972, and 1975; enrollments are as of October 15, 1969, 1972, and 1975, in programs answering the questions.

2/ Percentages are based on totals in programs answering the questions.

SOURCES: American Nurses' Association. Facts About Nursing: A Statistical Summary. New York, The Association. Annual eds.: 1970-71, p. 87; 1972-73, p. 90; and 1976-77, p. 103.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League. 1980.

Table 65-Practical[1] nurse training in the United States[2]: 1954-79

Academic Year	Approved Programs[3,4]	Reporting programs[4]	Enrollments	Admissions	Graduations
1953-54	296	290	---	12,075	7,109
1954-55	395	361	---	15,440	9,694
1955-56	396	396	---	15,526	10,641
1956-57	439	432	---	16,843	10,666
1957-58	520	511	---	20,531	12,407
1958-59	607	595	20,945	23,116	14,573
1959-60	661	632	21,633	23,060	16,491
1960-61	693	660	23,817	24,955	16,635
1961-62	739	707	25,910	26,660	18,106
1962-63	851	810	29,417	30,585	19,621
1963-64	913	881	33,128	34,131	22,761
1964-65	984	941	33,877	36,489	24,331
1965-66	1,081	1,018	36,729	38,755	25,688
1966-67	1,149	1,111	41,077	41,269	27,644
1967-68	1,245	1,193	44,292	45,076	30,833
1968-69	1,252	1,252	48,342	49,107	34,864
1969-70	1,253	1,253	53,0[illegible]0	55,635	37,128
1970-71	1,291	1,291	57,890	60,057	38,556
1971-72	1,310	1,310	58,186	61,680	44,446
1972-73	1,306	1,306	57,085	60,475	46,456
1973-74	1,315	1,315	58,872	60,249	45,863
1974-75	1,337	1,337	59,453	61,557	46,080
1975-76	1,339	1,339	59,370	62,272	48,081
1976-77	1,339	1,339	58,003	60,975	47,297
1977-78	1,329	1,329	55,620	61,586	45,991
1978-79	1,318	1,318	53,241	57,953	45,066

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[1] Includes attendant nursing 1954-57, and vocational nursing 1956-78.

[2] Alaska, Hawaii, and Puerto Rico were included for all years; American Somoa and Virgin Islands for 1962 and later.

[3] Accredited by State agencies where licensure provisions were in force, and by the National Association for Practical Nursing Education where no licensure provisions existed.

[4] As of October 15 following close of the academic year.

SOURCES: American Nurses' Association. Facts About Nursing: A Statistical Summary. New York, The Association, Annual eds.: 1955-56, pp. 147-48; 1960, pp. 171, 173; 1965, p. 185; 1967, pp. 177, 181.

National League for Nursing. State-Approved Schools of Nursing - LPN/LVN. New York, The League, Annual eds.: 1974-80.

Table 66-Number and percent of initial nursing programs (RN) accredited by the National League for Nursing: January 1, 1956-80

Year	Total[1]			Baccalaureate[2]			Diploma			Associate degree		
	All programs	Accredited		Total	Accredited		Total	Accredited		Total	Accredited	
		Number	Percent		Number	Percent		Number	Percent		Number	Percent
1956	1,141	283	24.8	155	61	39.4	967	221	22.9	19	1	5.3
1957	1,138	343	30.1	162	64	39.5	956	278	29.1	20	1	5.0
1958	1,159	439	38.5	167	74	44.3	944	363	38.5	28	2	7.1
1959	1,145	504	44.0	172	79	45.9	935	422	45.1	38	3	7.9
1960	1,137	583	51.3	171	88	51.5	918	490	53.4	48	5	10.4
1961	1,137	629	55.3	172	99	57.6	908	524	57.7	57	6	10.5
1962	1,126	673	59.8	174	112	64.4	883	555	62.9	69	6	8.7
1963	1,136	688	60.6	178	119	66.9	874	564	64.5	84	5	6.0
1964	1,148	707	61.6	183	129	70.5	860	573	66.6	105	5	4.8
1965	1,158	708	61.1	188	134	71.3	840	569	67.7	130	5	3.8
1966	1,193	721	60.4	198	141	71.2	821	574	69.9	174	6	3.4
1967	1,225	743	60.7	210	147	70.0	797	577	72.4	218	19	8.7
1968	1,269	770	60.7	221	151	68.3	767	577	75.2	281	42	14.9
1969	1,293	791	61.2	235	158	67.2	728	567	77.9	330	66	20.0
1970	1,339	819	61.2	254	173	68.1	695	556	80.0	390	90	23.1
1971	1,355	836	61.7	270	187	69.2	641	521	81.3	444	128	28.8
1972	1,363	840	61.6	285	198	69.5	587	489	83.3	491	153	31.2
1973	1,377	854	62.0	293	212	72.4	543	462	85.1	541	180	33.3
1974	1,373	861	62.7	305	224	73.4	494	431	87.2	574	206	35.9
1975	1,372	874	63.7	313	238	76.0	461	401	87.0	598	235	39.3
1976	1,375	904	65.7	329	254	77.2	428	382	89.3	618	268	43.4
1977	1,373	918	66.9	341	272	79.8	390	352	90.3	642	294	45.8
1978	1,372	902	65.7	349	276	79.1	367	333	90.7	656	293	44.7
1979	1,374	958	69.7	353	293	83.0	344	321	93.3	677	344	50.8
1980	1,389	976	70.3	368	302	82.1	333	311	93.4	688	363	52.8

[1] All years include Hawaii and Puerto Rico; beginning 1966, Virgin Islands; 1967, Guam; 1969, Alaska.
[2] Includes initial programs leading to master's degree.

SOURCES: American Nurses' Association. Facts About Nursing: A Statistical Summary. New York, The Association, Annual eds.: 1957. p. 85; 1958, p. 89; 1959, p. 90; and 1967, p. 118.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, Annual eds.: 1968-80.

Table 67-Number and percent of students enrolled in initial programs in nursing (RN) accredited by the National League for Nursing: 1953-79

Year	Total[1/]			Baccalaureate[2/]			Diploma			Associate degree		
	Total enrollment	Enrollment in accredited programs: Number	Enrollment in accredited programs: Percent	Total enrollment	Enrollment in accredited programs: Number	Enrollment in accredited programs: Percent	Total enrollment	Enrollment in accredited programs: Number	Enrollment in accredited programs: Percent	Total enrollment	Enrollment in accredited programs: Number	Enrollment in accredited programs: Percent
January												
1953	102,019	31,912	31.3	12,711	7,648	60.2	89,308	24,264	27.2	---	---	---
1954	103,019	36,598	35.5	14,654	8,468	57.8	88,365	28,130	31.8	---	---	---
1955	107,572	39,639	36.8	14,898	8,552	57.1	92,583	31,087	33.6	---	---	---
October												
1955	114,423	44,673	39.0	17,437	9,960	57.1	95,902	34,700	36.2	1,084	13	1.2
1956	114,674	51,523	44.9	18,622	10,494	56.4	94,920	40,999	43.2	1,132	30	2.7
1957	112,989	60,492	53.5	18,640	11,166	59.9	92,989	49,279	53.0	1,360	47	3.5
1958	113,518	65,730	57.9	19,195	11,983	62.4	92,419	53,613	58.0	1,904	134	7.0
1959	115,057	74,617	64.9	19,813	13,420	67.7	92,899	60,878	65.5	2,345	319	13.6
1960	118,849	82,312	69.3	20,783	15,142	72.9	94,812	66,768	70.4	3,254	402	12.4
1961	123,012	90,320	73.4	22,546	17,961	79.7	96,606	71,910	74.4	3,860	449	11.6
1962	123,861	92,545	74.7	23,656	19,493	82.4	95,278	72,538	76.1	4,927	514	10.4
1963	124,744	93,587	75.0	25,117	21,179	84.3	93,271	71,880	77.1	6,356	528	8.3
1964	129,269	97,439	75.4	27,667	24,104	87.1	93,089	72,970	78.4	8,513	365	4.3
1965	135,702	102,090	75.2	30,378	26,670	87.8	93,760	74,825	79.8	11,564	595	5.1
1966	139,070	104,798	75.4	33,081	28,858	87.2	90,651	73,858	81.5	15,338	2,082	13.6
1967	141,948	106,000	74.7	36,599	31,256	85.4	84,413	70,299	83.3	20,936	4,445	21.2
1968	145,588	108,004	74.2	40,341	33,906	84.0	77,776	66,439	85.4	27,471	7,659	27.9
1969	150,795	111,760	74.1	43,460	37,457	86.2	72,798	63,368	87.0	34,537	10,935	31.7
1970	164,545	121,511	73.8	48,897	41,774	85.4	71,[illegible]	62,536	88.0	44,593	17,201	38.6
1971	187,551	138,632	73.9	59,785	50,533	84.5	71,466	63,781	89.2	56,300	24,318	43.2
1972	213,127	159,123	74.7	73,890	62,963	85.2	71,694	64,998	90.7	67,543	31,462	46.6
1973	232,589	174,950	76.3	85,156	73,150	85.9	68,760	63,309	92.1	78,673	38,491	48.9
1974	244,486	186,578	76.3	94,951	82,981	87.4	64,083	59,021	92.1	85,452	44,576	52.2
1975	250,385	196,290	78.4	100,680	88,634	88.0	60,213	56,252	93.4	89,492	51,404	57.4
1976	249,541	199,277	79.9	101,046	91,177	90.2	56,091	52,957	94.4	92,404	55,143	59.7
1977	247,739	197,359	79.7	102,494	91,561	89.3	52,858	50,153	94.9	92,387	55,645	60.2
1978	242,259	197,366	81.5	101,239	91,938	90.8	48,059	46,004	95.7	92,961	59,424	63.9
1979	237,580	194,737	82.0	100,444	90,982	90.6	43,651	41,899	96.0	93,485	61,886	66.2

[1/] Includes Hawaii and Puerto Rico for all years; Virgin Islands beginning 1965, Guam beginning 1966, and Alaska in 1968.
[2/] Includes enrollments in initial program leading to master's degree in nursing.

SOURCES: American Nurses' Association. Facts About Nursing: A Statistical Summary. New York, The Association, Annual eds.: 1957. p. 85; 1958, p. 89; 1959, p. 90; 1960, p. 88; 1961, p. 108; 1962-63, p. 110; 1964, p. 113; and 1965, p. 106.

National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, Annual eds.: 1965-80.

Table 68-Admissions, graduations, and enrollments of men students in schools of nursing, by type of program: selected years, 1963-78

Type of program by year[1]	Admissions		Graduations		Enrollments	
	Number of men students	Percent of total admissions	Number of men students	Percent of total graduations	Number of men students	Percent of total enrollments
Baccalaureate						
1962-63	83	.9	28	.6	171	.7
1965-66	191	1.5	49	.9	314	1.0
1968-69	378	2.4	84	1.0	705	1.6
1971-72	1,386	5.1	278	2.5	2,803	3.8
1974-75	1,916	6.5	938	5.3	4,550	5.3
1977-78	2,199	6.2	1,159	5.0	4,249	4.5
Diploma						
1962-63	596	1.6	285	1.1	1,359	1.5
1965-66	569	1.5	410	1.6	1,227	1.4
1968-69	722	2.5	358	1.4	1,587	2.2
1971-72	1,340	4.5	518	2.4	2,533	3.5
1974-75	1,121	5.2	856	4.5	2,362	4.5
1977-78	1,027	5.3	655	4.4	1,862	4.2
Associate degree						
1962-63	177	5.1	80	5.4	241	3.8
1965-66	316	3.7	145	4.3	503	3.3
1968-69	980	5.2	352	4.0	1,488	4.3
1971-72	2,460	6.6	898	4.7	4,209	6.2
1974-75	3,159	8.2	2,013	7.9	4,828	7.1
1977-78	3,133	6.8	2,048	6.4	4,216	5.3
Total RN						
1962-63	856	1.7	393	1.2	1,771	1.4
1965-66	1,076	1.8	604	1.7	2,044	1.5
1968-69	2,080	3.2	794	1.9	3,780	2.5
1971-72	5,186	5.5	1,694	3.3	9,545	4.5
1974-75	6,196	6.9	3,807	6.1	11,740	5.7
1977-78	6,359	6.3	3,862	5.5	10,327	4.8
Total LPN/LVN						
1962-63	...	...	744	3.8	...	...
1965-66	1,134	2.9	790	3.1	1,036	2.8
1968-69	2,023	4.1	1,200	3.4	1,481	3.1
1971-72	2,751	4.5	1,631	3.7	2,197	3.8
1974-75	2,751	5.9	1,180	3.4	1,924	4.2
1977-78	2,365	4.5	1,395	3.5	1,901	3.9

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[1] Admissions and graduations are for the academic years specified; enrollments as of October 15 in 1963, 1966, 1969, 1972 and 1974. these are minimum counts - not projected for nonreporting schools. Percentages are computed on totals in all schools.

SOURCES: American Nurses' Association. Facts About Nursing: A Statistical Summary. New York, the Association, Annual eds.: 1965, pp. 92-93; 1967, pp. 106-107; 1970-71, pp. 86 and 197, 1972-73, pp. 89 and 192; 1976-77, pp. 101, 102 and 251.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 69-Estimated percent of registered nurses[1] by basic nursing educational preparation and age at completion of basic nursing education, September 1977

Age at completion of basic nursing education	Basic nursing educational preparation			
	Total	Diploma	Associate degree	Baccalaureate and above
	Percent	Percent	Percent	Percent
Total	100.0	100.0	100.0	100.0
Under 20 years	0.9	1.1	1.2	0.1
20 - 24	85.0	89.6	52.6	87.6
25 - 29	6.9	5.6	15.1	7.6
30 - 34	2.4	1.4	9.9	1.8
35 - 39	1.6	0.6	9.3	1.0
40 - 44	0.9	0.3	5.6	0.5
45 years and over	1.0	0.4	5.2	0.5
Not reported	1.3	1.1	1.0	0.9
Median age	22.4	22.2	24.1	22.3

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[1] Includes only registered nurses actively licensed in September 1977 who worked in the United States, if employed in nursing, or lived in the United States, if not employed in nursing.

Note: Because of rounding, sums of estimated percents may not add to totals.

SOURCE: Roth, Aleda et al., 1977 National Sample Survey of Registered Nurses. National Technical Information Service, Springfield, Va. 1979.

Table 70-Students enrolled in schools offering initial programs in nursing (RN), by type of program, region and State: October 15, 1969 and 1979

Region and State	Total		Baccalaureate 1/		Diploma		Associate	
	1969	1979	1969	1979	1969	1979	1969	1979
United States	149,124	234,659	43,286	98,939	71,921	43,651	33,917	92,069
Northeast	48,753	70,444	10,714	32,205	29,309	15,501	8,730	22,738
North Central	45,662	67,476	11,926	25,820	25,641	18,290	8,095	23,366
South	35,269	68,690	12,778	29,513	12,832	8,420	9,659	30,757
West	19,440	28,049	7,868	11,401	4,139	1,440	7,433	15,208
Alabama	1,626	4,940	600	2,775	859	418	167	1,747
Alaska	15	331	15	262	-	-	-	69
Arizona	1,478	2,025	873	970	222	-	383	1,055
Arkansas	737	2,047	270	727	129	231	338	1,089
California	9,237	13,344	2,879	4,815	1,997	828	4,361	7,701
Colorado	1,501	2,031	647	1,078	447	224	407	729
Connecticut	2,565	3,517	719	1,660	1,718	905	128	952
Delaware	547	1,304	302	842	198	166	47	296
District of Columbia	1,080	2,036	552	1,555	409	132	119	349
Florida	3,245	6,199	850	1,630	682	487	1,713	4,082
Georgia	2,327	3,848	310	1,069	1,170	686	847	2,093
Hawaii	270	392	111	161	-	-	159	231
Idaho	308	678	67	209	-	-	241	469
Illinois	8,000	12,454	1,553	4,043	4,715	3,511	1,732	4,900
Indiana	3,567	6,224	1,163	2,755	1,355	1,003	1,049	2,466
Iowa	2,557	4,081	498	1,391	1,877	1,342	182	1,348
Kansas	1,456	2,330	290	1,042	1,068	442	98	846
Kentucky	1,981	3,437	645	802	552	261	784	2,374
Louisiana	1,944	4,172	1,072	2,376	720	705	152	1,091
Maine	663	1,334	195	605	418	357	50	372
Maryland	3,155	3,817	1,139	1,186	1,430	537	586	2,094
Massachusetts	8,031	8,949	1,933	3,990	4,927	2,484	1,171	2,475
Michigan	5,974	8,449	1,667	3,502	2,629	1,281	1,678	3,666
Minnesota	4,095	4,553	1,081	1,670	2,078	724	936	2,159
Mississippi	778	2,598	175	968	158	114	445	1,516
Missouri	3,685	5,433	770	1,569	2,327	2,317	588	1,547
Montana	675	895	403	699	189	-	83	196
Nebraska	1,825	2,070	437	502	1,388	1,039	-	529
Nevada	232	470	125	99	-	-	107	371
New Hampshire	803	1,050	280	545	523	366	-	139
New Jersey	4,703	7,569	892	2,758	2,581	2,202	1,230	2,609
New Mexico	415	1,000	301	286	-	-	114	714
New York	17,418	29,834	4,579	14,312	7,669	2,960	5,170	12,562
North Carolina	3,276	5,807	1,192	2,606	1,492	719	592	2,482
North Dakota	920	1,313	335	744	462	352	123	217
Ohio	8,284	12,506	1,434	3,808	5,565	4,654	1,265	4,044
Oklahoma	943	2,348	375	990	438	133	130	1,225
Oregon	1,363	1,898	452	539	563	324	348	1,035
Pennylvania	12,817	15,460	1,519	6,528	10,683	6,042	615	2,890
Rhode Island	1,252	2,083	394	1,486	637	185	221	412
South Carolina	1,154	2,392	432	1,236	250	69	472	1,087
South Dakota	1,250	1,502	618	839	422	282	210	381
Tennessee	2,504	5,341	667	1,894	1,073	1,251	764	2,196
Texas	5,926	10,769	3,060	5,789	1,205	846	1,661	4,134
Utah	961	1,001	562	328	125	-	274	673
Vermont	501	648	203	321	153	-	145	327
Virginia	2,696	5,385	807	2,400	1,497	1,324	392	1,661
Washington	2,776	3,698	1,269	1,780	596	64	911	1,854
West Virginia	1,350	2,250	330	668	570	341	450	1,241
Wisconsin	4,049	6,561	2,060	3,955	1,755	1,343	234	1,263
Wyoming	209	286	164	175	-	-	45	111
Guam	40	49	-	-	-	-	40	49
Puerto Rico	1,602	2,844	174	1,505	877	-	551	1,339
Virgin Islands	29	28	-	-	-	-	29	28

1/ Includes a few students enrolled in initial programs leading to a Master's degree in nursing.

SOURCE: National League for Nursing. State-Approved Schools of Nursing - RN. New York, The League, 1969, p. 111 and 1979, p. 61.

Table 71-Students admitted to schools offering initial programs in nursing (RN), by type of program, region and State: academic years ending August 31, 1969 and July 31, 1979

Region and State	Total		Baccalaureate 1/		Diploma		Associate	
	1969	1979	1969	1979	1969	1979	1969	1979
United States	63,408	107,476	15,901	35,611	28,971	18,499	18,536	53,366
Northeast	19,756	28,831	3,733	10,015	11,451	6,372	4,572	12,444
North Central	18,812	30,481	4,389	9,160	10,215	7,945	4,208	13,376
South	15,960	34,493	4,727	12,146	5,512	3,574	5,721	18,773
West	8,880	13,671	3,052	4,290	1,793	608	4,035	8,773
Alabama	721	2,737	243	1,390	315	155	163	1,192
Alaska	7	141	7	99	-	-	-	42
Arizona	714	1,093	386	450	93	-	235	643
Arkansas	314	1,006	97	307	56	98	161	601
California	4,481	6,471	1,161	1,675	854	401	2,466	4,395
Colorado	539	968	157	400	222	83	160	485
Connecticut	960	1,412	234	533	653	362	73	517
Delaware	220	493	98	231	95	78	27	184
District of Columbia	352	680	123	521	179	59	50	100
Florida	1,657	3,425	351	677	277	178	1,029	2,570
Georgia	1,030	2,359	104	664	477	299	449	1,396
Hawaii	163	219	64	84	-	-	99	135
Idaho	100	383	41	112	-	-	59	271
Illinois	3,211	5,838	514	1,342	1,957	1,621	740	2,875
Indiana	1,469	2,590	439	934	472	377	558	1,279
Iowa	1,153	1,994	211	537	815	567	127	890
Kansas	594	1,277	104	507	402	254	88	516
Kentucky	1,122	1,823	340	325	326	128	456	1,370
Louisiana	1,058	1,744	608	859	363	308	87	577
Maine	270	546	61	187	179	132	30	227
Maryland	1,349	1,849	463	554	580	211	306	1,084
Massachusetts	3,013	3,577	602	1,258	1,796	1,013	615	1,306
Michigan	2,685	3,980	596	1,256	1,133	558	956	2,166
Minnesota	1,684	2,196	379	720	771	266	534	1,210
Mississippi	454	1,398	71	411	71	22	312	965
Missouri	1,584	2,434	282	576	969	977	333	881
Montana	282	306	154	221	91	-	37	85
Nebraska	747	843	157	123	590	438	-	282
Nevada	122	205	48	58	-	-	74	147
New Hampshire	302	346	89	161	213	115	-	70
New Jersey	2,076	3,271	273	858	1,152	930	651	1,483
New Mexico	176	457	111	79	-	-	65	378
New York	7,471	12,247	1,569	4,340	3,171	1,167	2,731	6,740
North Carolina	1,441	2,762	407	885	646	316	388	1,561
North Dakota	384	625	109	274	243	226	32	125
Ohio	3,260	5,483	574	1,308	2,031	1,990	655	2,185
Oklahoma	376	1,116	147	346	158	63	71	707
Oregon	588	979	191	194	213	124	184	661
Pennsylvania	4,968	6,324	713	2,088	3,941	2,562	314	1,674
Rhode Island	480	823	134	487	250	91	96	245
South Carolina	536	1,184	159	450	97	34	280	700
South Dakota	448	665	221	310	138	122	89	233
Tennessee	1,038	2,512	239	761	351	481	448	1,270
Texas	2,530	5,784	807	2,565	673	446	1,050	2,773
Utah	378	507	191	139	40	-	147	368
Vermont	216	285	58	103	96	-	62	182
Virginia	1,146	2,541	341	951	619	572	186	1,018
Washington	1,270	1,806	481	713	280	-	509	1,093
West Virginia	616	1,080	129	249	229	126	258	705
Wisconsin	1,393	2,556	803	1,273	694	549	96	734
Wyoming	60	136	60	66	-	-	-	70
Guam	19	35	-	-	-	-	19	35
Puerto Rico	719	1,186	82	476	296	-	341	710
Virgin Islands	11	20	-	-	-	-	11	20

1/ Includes a few students admitted to initial programs leading to a Master's degree in nursing.

SOURCE: National League for Nursing. State-Approved Schools of Nursing - RN. New York. The League, 1969, p. 111 and 1979, p. 61.

Table 72-Students graduated from schools offering initial programs in nursing (RN), by type of program, region and State: academic years ending August 31, 1969 and July 31, 1979

Region and State	Total		Baccalaureate 1/		Diploma		Associate	
	1969	1979	1969	1979	1969	1979	1969	1979
United States	41,801	77,132	8,355	25,048	24,868	15,820	8,578	36,264
Northeast	14,557	20,649	1,955	6,655	10,485	5,927	2,117	8,067
North Central	13,366	23,285	2,569	7,158	8,694	6,598	2,103	9,529
South	8,899	22,693	2,329	7,895	4,408	2,724	2,162	12,074
West	4,979	10,505	1,502	3,340	1,281	571	2,196	6,594
Alabama	458	1,589	90	679	333	115	35	795
Alaska	—	43	—	15	—	—	—	28
Arizona	279	784	90	255	87	—	102	529
Arkansas	132	676	57	167	75	58	—	451
California	2,461	5,231	646	1,433	596	287	1,399	3,511
Colorado	373	662	152	291	138	90	83	281
Connecticut	710	1,072	122	364	553	267	35	441
Delaware	123	362	34	149	81	82	8	131
District of Columbia	225	389	107	303	118	46	—	40
Florida	972	2,456	237	475	204	146	531	1,835
Georgia	687	1,472	81	348	405	309	201	815
Hawaii	44	148	1	55	—	—	43	93
Idaho	113	267	13	61	17	—	83	206
Illinois	2,375	4,507	323	1,131	1,703	1,340	349	2,036
Indiana	1,129	2,053	302	700	423	360	404	993
Iowa	782	1,597	130	522	602	467	50	608
Kansas	488	944	68	393	395	239	25	312
Kentucky	507	1,312	143	341	205	79	159	892
Louisiana	435	1,027	188	445	228	214	19	368
Maine	222	414	30	122	174	107	18	185
Maryland	803	1,430	244	399	451	177	108	854
Massachusetts	2,083	2,871	312	855	1,519	964	252	1,052
Michigan	1,668	3,146	365	950	913	675	390	1,521
Minnesota	1,252	1,749	343	602	702	238	207	909
Mississippi	239	848	22	250	75	62	142	536
Missouri	1,075	1,805	161	381	722	760	192	664
Montana	171	251	84	192	77	—	10	59
Nebraska	464	757	75	167	389	363	—	227
Nevada	50	132	24	35	—	—	26	97
New Hampshire	182	333	26	122	156	136	—	75
New Jersey	1,242	2,304	98	566	975	752	169	986
New Mexico	55	341	24	86	—	—	31	255
New York	5,408	8,112	1,013	2,869	2,951	1,338	1,444	3,905
North Carolina	822	1,870	222	770	475	220	125	880
North Dakota	350	426	87	206	228	137	35	83
Ohio	2,585	4,126	314	1,084	1,943	1,472	328	1,570
Oklahoma	246	806	47	345	165	28	34	433
Oregon	318	815	88	265	177	101	53	449
Pennylvania	4,216	4,797	245	1,407	3,848	2,292	123	1,098
Rhode Island	343	536	71	275	232	71	40	190
South Carolina	341	730	71	274	103	19	167	437
South Dakota	255	445	68	186	122	81	65	178
Tennessee	585	1,698	117	408	337	384	131	906
Texas	1,236	3,619	408	1,816	508	278	320	1,525
Utah	227	419	79	106	40	—	108	313
Vermont	151	210	38	75	77	—	36	135
Virginia	695	1,658	203	581	415	423	77	654
Washington	685	1,323	278	505	149	93	258	725
West Virginia	393	751	58	145	230	84	105	522
Wisconsin	943	1,730	333	836	552	466	58	428
Wyoming	23	89	23	41	—	—	—	48
Guam	10	38	—	—	—	—	10	38
Puerto Rico	376	746	26	301	246	—	104	445
Virgin Islands	9	16	—	—	—	—	9	16

1/ Includes a few students granted Master's degrees from an initial program.

SOURCE: National League for Nursing. State-Approved Schools of Nursing - RN. New York. The League, 1970, p. 11 and 1980, p. 83.

Table 73-Number of approved[1] programs of practical nursing, by region and State: selected years 1954-79

Region and State	1954	1958	1962	1966	1970	1974	1978	1979
United States	290	517	727	1,108	1,233	1,294	1,308	1,298
Northeast	50	[illegible]	143	231	263	267	240	237
North Central	49	101	137	211	246	269	272	279
South	123	222	323	493	537	540	578	574
West	68	103	124	173	187	218	218	208
Alabama	9	10	12	26	29	25	25	25
Alaska	1	1	1	1	1	1	1	1
Arizona	1	3	3	9	8	12	14	13
Arkansas	5	7	10	19	20	22	29	27
California	24	41	48	69	82	99	97	91
Colorado	5	6	11	13	15	16	18	17
Connecticut	1	1	4	8	10	10	10	10
Delaware	—	1	2	4	4	[illegible]	5	5
District of Columbia	3	2	4	4	7	5	3	3
Florida	9	17	23	26	29	32	35	35
Georgia	1	14	27	43	48	55	53	54
Hawaii	1	1	1	2	4	3	4	4
Idaho	13	17	15	13	13	13	11	10
Illinois	5	13	19	33	40	41	43	45
Indiana	1	4	7	16	18	18	17	17
Iowa	2	6	11	22	23	25	25	26
Kansas	1	4	4	10	11	15	17	17
Kentucky	3	7	13	13	16	16	16	16
Louisiana	7	12	12	19	23	25	36	37
Maine	—	2	2	4	5	5	5	5
Maryland	10	13	13	17	22	26	20	22
Massachusetts	14	21	28	36	39	36	31	30
Michigan	11	14	19	31	34	37	36	36
Minnesota	10	20	22	28	27	27	27	27
Mississippi	—	6	10	20	19	13	14	14
Missouri	—	8	16	21	27	33	33	33
Montana	1	1	4	8	8	7	6	6
Nebraska	—	2	3	4	7	9	7	9
Nevada	1	3	6	10	9	9	7	7
New Hampshire	1	2	3	4	5	4	4	4
New Jersey	7	11	20	30	35	41	34	35
New Mexico	—	5	5	7	5	10	11	10
New York	17	33	50	98	107	114	99	97
North Carolina	6	12	19	35	43	40	42	40
North Dakota	2	2	3	3	4	3	5	6
Ohio	11	18	22	30	38	42	42	43
Oklahoma	3	7	10	15	18	22	29	28
Oregon	3	6	9	11	13	12	12	11
Pennsylvania	8	15	31	45	57	52	53	52
Rhode Island	[illegible]	2	2	3	2	2	1	1
South Carolina	8	[illegible]	16	22	33	32	31	30
South Dakota	1	2	3	3	5	6	6	6
Tennessee	7	10	10	10	11	7	7	6
Texas	43	79	113	163	145	142	157	155
Utah	3	3	2	4	4	6	5	5
Vermont	1	3	3	3	3	3	3	3
Virginia	7	13	24	41	54	60	58	58
Washington	15	16	18	24	23	27	29	29
West Virginia	2	4	5	16	16	14	18	19
Wisconsin	5	8	8	10	12	13	14	14
Wyoming	—	—	1	2	2	3	3	4
American Samoa	—	—	—	—	—	1	1	1
Guam	—	—	1	1	1	1	1	1
Puerto Rico	—	3	9	10	16	19	17	18
Virgin Islands	—	—	2	2	3	—	—	—

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[1] Accredited by State agency where licensure provision was in force, and by National Association for Practical Nurse Education where no licensure provision existed.

SOURCE: National League for Nursing. State-Approved Schools of Nursing - LPN/LVN. New York, The League, Annual eds. 1967-80

U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printine Office, 1974, p. 111.

Table 74-Admissions to approved schools[1] of practical nursing, by region and State: selected years 1954-79

Region and State	1954	1958	1962	1966	1970	1974	1978	1979
United States	12,075	20,445	26,381	38,267	54,934	59,190	60,610	57,081
Northeast	2,524	4,106	6,364	9,372	12,759	13,522	12,448	11,380
North Central	2,791	5,342	6,766	10,843	13,924	15,346	15,443	14,969
South	3,925	7,488	9,088	12,294	19,916	21,778	23,730	22,779
West	2,835	3,509	4,163	5,778	8,335	8,544	8,989	7,953
Alabama	313	572	442	736	1,142	1,215	1,641	1,745
Alaska	31	38	20	30	24	25	35	24
Arizona	7[illegible]	128	150	300	456	382	589	491
Arkansas	221	322	394	542	703	902	1,347	968
California	1,307	1,623	1,851	3,010	4,586	4,626	4,582	4,363
Colorado	331	252	383	394	584	662	762	573
Connecticut	206	232	335	511	851	733	506	455
Delaware	—	36	59	107	113	159	170	155
District of Columbia	370	184	279	150	619	206	190	173
Florida	262	415	726	1,002	1,901	2,179	2,505	2,569
Georgia	47	374	442	896	1,541	2,068	2,052	1,976
Hawaii	106	106	82	79	106	112	165	138
Idaho	191	247	187	131	193	224	196	187
Illinois	458	653	1,004	2,223	2,179	2,429	2,764	2,760
Indiana	—	306	538	617	975	1,162	1,056	1,013
Iowa	32	115	224	499	1,000	1,026	1,087	1,066
Kansas	56	192	167	473	483	649	583	533
Kentucky	134	267	426	446	803	645	707	752
Louisiana	262	416	371	575	991	1,322	1,775	1,746
Maine	—	58	79	149	210	210	235	260
Maryland	244	328	356	413	614	777	660	549
Massachusetts	444	705	1,001	1,342	1,640	1,550	1,356	1,304
Michigan	821	1,178	1,479	2,150	2,414	2,570	2,203	2,08[illegible]
Minnesota	335	642	652	840	1,220	1,262	1,419	1,411
Mississippi	—	211	278	393	677	862	1,033	908
Missouri	—	462	530	844	1,223	1,265	1,268	1,281
Montana	10	20	68	148	304	250	286	254
Nebraska	—	77	130	278	447	547	525	508
Nevada	—	39	108	80	132	128	126	108
New Hampshire	18	44	118	127	153	163	203	169
New Jersey	200	406	689	1,013	1,240	1,914	1,870	1,676
New Mexico	—	217	233	237	209	249	406	294
New York	1,098	1,603	2,349	3,852	4,995	5,247	4,958	4,290
North Carolina	216	413	561	819	1,274	1,448	1,41[illegible]	1,243
North Dakota	35	73	146	261	362	349	372	329
Ohio	781	1,145	1,270	1,798	2,277	2,598	2,585	2,483
Oklahoma	86	124	300	439	662	776	928	922
Oregon	92	179	325	316	439	270	360	281
Pennsylvania	483	803	1,535	2,091	3,243	3,258	2,996	2,943
Rhode Island	57	158	133	176	227	210	118	118
South Carolina	149	188	297	340	620	892	866	865
South Dakota	45	75	119	127	202	248	274	271
Tennessee	292	608	780	918	1,474	1,290	1,474	1,455
Texas	1,028	2,389	2,458	3,219	4,821	5,076	4,883	4,795
Utah	115	124	133	93	230	335	438	367
Vermont	18	97	125	111	200	237	206	165
Virginia	227	453	726	886	1,482	1,475	1,553	1,461
Washington	582	536	623	906	1,014	1,170	965	789
West Virginia	74	188	193	413	479	486	535	497
Wisconsin	228	424	507	733	1,142	1,241	1,307	1,232
Wyoming	—	—	—	54	58	91	79	84
American Samoa	—	—	—	—	—	[2]	53	25
Guam	—	—	18	24	18	20	23	35
Puerto Rico	—	132	249	432	673	1,039	900	812
Virgin Islands	—	—	12	16	10	—	—	—

[1] As defined in table 73, reporting schools only.
[2] Admissions to one program counted with Associate Degree students.

SOURCE: National League for Nursing. State-Approved Schools of Nursing - LPN/LVN. New York, The League, Annual eds: 1967-80.

U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p.113.

Table 75-Graduations from approved schools[1] of practical nursing, by region and State: selected years 1954-79

Region and State	1954	1958	1962	1966	1970	1974	1978	1979
United States	7,109	12,350	17,881	25,326	36,456	45,002	45,350	44,235
Northeast	1,560	2,556	4,318	6,659	8,659	10,154	9,722	9,118
North Central	1,935	3,509	4,844	7,624	10,409	12,740	12,507	12,352
South	2,093	4,306	6,120	7,641	12,424	15,588	16,450	15,969
West	1,521	1,979	2,599	3,402	4,964	6,520	6,671	6,796
Alabama	147	285	395	395	727	799	959	1,097
Alaska	21	25	--	16	14	15	31	19
Arizona	26	53	90	121	215	367	415	453
Arkansas	80	183	309	328	482	614	824	783
California	599	834	1,114	1,607	2,431	3,279	3,276	3,371
Colorado	225	139	285	262	422	506	665	531
Connecticut	103	125	206	343	558	625	463	388
Delaware	--	34	33	50	65	104	153	72
District of Columbia	246	139	133	132	179	150	85	108
Florida	82	303	532	666	1,269	1,549	1,978	1,797
Georgia	41	127	325	463	1,111	1,308	1,378	1,422
Hawaii	69	64	50	50	91	74	116	119
Idaho	105	153	127	133	171	195	172	196
Illinois	299	396	584	1,303	1,577	2,030	2,223	2,151
Indiana	--	201	323	516	692	994	958	841
Iowa	25	92	178	426	769	978	808	917
Kansas	46	102	139	229	395	572	568	556
Kentucky	47	208	280	397	428	536	439	435
Louisiana	133	268	248	301	573	925	962	1,002
Maine	--	35	64	83	152	198	194	189
Maryland	163	224	221	227	380	546	498	376
Massachusetts	267	399	606	1,036	1,217	1,321	1,129	1,078
Michigan	585	818	1,012	1,479	1,707	1,836	1.664	1,698
Minnesota	248	439	607	763	970	1,110	1,[illegible]33	1,281
Mississippi	--	143	160	240	439	661	700	688
Missouri	--	268	379	527	835	1,004	1,085	1,001
Montana	8	13	33	75	132	231	185	165
Nebraska	--	33	90	187	357	490	432	364
Nevada	15	33	62	67	104	94	70	91
New Hampshire	--	25	78	104	140	117	142	155
New Jersey	126	235	536	589	812	1,326	1,490	1,361
New Mexico	--	124	156	119	119	201	281	314
New York	776	1,059	1,521	2,822	3,226	3,617	3,591	3,092
North Carolina	137	175	413	576	911	1,130	1,064	1,010
North Dakota	36	54	93	181	273	238	305	278
Ohio	507	732	986	1,404	1,742	2,231	2,081	2,097
Oklahoma	47	108	210	221	395	659	703	739
Oregon	60	89	194	227	291	344	362	345
Pennsylvania	267	488	1,087	1,525	2,241	2,428	2,435	2,590
Rhode Island	19	145	122	98	172	339	108	95
South Carolina	68	146	201	274	369	461	624	478
South Dakota	42	34	100	106	226	221	234	207
Tennessee	171	357	633	680	1,074	968	953	899
Texas	555	1,236	1,467	1,860	2,902	3,773	3,715	3,607
Utah	63	74	88	53	190	230	230	249
Vermont	2	45	98	59	141	183	170	170
Virginia	143	259	411	636	787	995	982	1,016
Washington	330	378	400	645	739	916	810	879
West Virginia	33	111	149	195	333	410	433	440
Wisconsin	147	340	353	503	866	1,036	1,016	961
Wyoming	--	--	--	27	45	68	58	64
American Samoa	--	--	--	--	--	25	41	9
Guam	--	--	10	9	19	17	--	24
Puerto Rico	--	115	208	353	638	819	600	798
Virgin Islands	--	--	7	2	15	--	--	--

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[1] As defined in table 73, reporting schools only.

SOURCE: National League for Nursing. State-Approved Schools of Nursing - LPN/LVN. New York, The League, Annual editions.

U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974, p. 115.

Table 76-Men students in schools offering initial programs in nursing (RN), admissions, graduations, and enrollments:[1] 1943-55 and academic years 1957-78

Year	Programs enrolling at least one man	Admissions	Graduations	Enrollments
Calendar:				
1943	80	...	...	379
1944	69	...	...	...
1945	...	42	28	169
1946	68	...	36	72
1947	...	334	42	...
1948	115	470	28	455
1949	123	398	136	719
1950	183	508	205	900
1951	181	384	248	1,023
1952	113	361	271	967
1953	...	332	335	883
1954	...	400	236	843
1955	...	459	230	823 [2]
Academic:				
1956-57	...	484	224	1,037
1959-60	...	690	287	1,403
1962-63	361	856	393	1,771
1965-66	532	1,076	604	2,044
1968-69	863	2,080	794	3,780
1971-72	1,127	5,186	1,694	9,545
1974-75	1,087	6,196	3,807	11,740
1977-78	1,202	6,359	3,862	10,327

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[1] Admissions and graduations are for calendar years through 1955; academic years 1956-66. Enrollments as of January 1 through 1955; as of October 15 in 1957, 1960, 1963, 1966, 1969, 1972, and 1975.

[2] Enrollments October 15, 1955 were 913.

SOURCES: American Nurses' Association. Facts About Nursing: A Statistical Summary. New York, The Association, Annual eds.: 1945, p. 35; 1950, pp. 38 and 46; 1964, p. 100; 1965, p. 90; 1967, p. 109; 1970-71, p. 86; 1972-73, p. 89; 1976-77, pp. 101-102.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 77-Admissions, graduations, and enrollments of men students in schools of nursing, by type of program: selected years, 1963-78

Type of program by year[1]	Admissions		Graduations		Enrollments	
	Number of men students	Percent of total admissions	Number of men students	Percent of total graduations	Number of men students	Percent of total enrollments
Baccalaureate						
1962-63	83	.9	28	.6	171	.7
1965-66	191	1.5	49	.9	314	1.0
1968-69	378	2.4	84	1.0	705	1.6
1971-72	1,386	5.1	278	2.5	2,803	3.8
1974-75	1,916	6.5	938	5.3	4,550	5.3
1977-78	2,199	6.2	1,159	5.0	4,249	4.5
Diploma						
1962-63	596	1.6	285	1.1	1,359	1.5
1965-66	569	1.5	410	1.6	1,227	1.4
1968-69	722	2.5	358	1.4	1,587	2.2
1971-72	1,340	4.5	518	2.4	2,533	3.5
1974-75	1,121	5.[illegible]	856	4.5	2,362	4.5
1977-78	1,027	5.3	655	4.4	1,862	4.2
Associate degree						
1962-63	177	5.1	80	5.4	241	3.8
1965-66	316	3.7	145	4.3	503	3.3
1968-69	980	5.2	352	4.0	1,488	4.3
1971-72	2,460	6.6	898	4.7	4,209	6.2
1974-75	3,159	8.2	2,013	7.9	4,828	7.1
1977-78	3,133	6.8	2,048	6.4	4,216	5.3
Total RN						
1962-63	856	1.7	393	1.2	1,771	1.4
1965-66	1,076	1.8	604	1.7	2,044	1.5
1968-69	2,080	3.2	794	1.9	3,780	2.5
1971-72	5,186	5.5	1,694	3.3	9,545	4.5
1974-75	6,196	6.9	3,807	6.1	11,740	5.7
1977-78	6,359	6.3	3,862	5.5	10,327	4.8
Total LPN/LVN						
1962-63	...	...	744	3.8	...	...
1965-66	1,134	2.9	790	3.1	1,036	2.8
1968-69	2,023	4.1	1,200	3.4	1,481	3.1
1971-72	2,751	4.5	1,631	3.7	2,197	3.8
1974-75	2,751	5.9	1,180	3.4	1,924	4.2
1977-78	2,365	4.5	1,395	3.5	1,901	3.9

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[1] Admissions and graduations are for the academic years specified; enrollments as of October 15, 1963, 1966, 1969, 1972, 1975 and 1978. These are minimum counts - not projected for non-reporting schools. Percentages are computed on totals in all schools.

SOURCES: American Nurse's Association. Facts About Nursing: A Statistical Summary. New York, The Association. Annual eds: 1965, pp. 92-93; 1967, pp. 106-107; 1970-71, pp. 86 and 197; 1972-73, pp. 89 and 192; 1976-77, pp. 101, 102, and 251.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 78-Black students in schools offering initial programs in nursing (RN), admissionns, graduations, and enrollments; 1943-55 and academic years 1957-78

Year 1/	Programs enrolling at least one man	Admissions	Graduations	Enrollments
Calendar				
1943	46	...	...	2,047
1944	49	...	549	1,453
1945	...	821	520	...
1946	76	...	540	2,281
1947	...	1,00[illegible]	592	...
1948	119	1,262	597	2,255
1949	149	1,3[illegible]3	507	2,504
1950	207	1,200	583	3,076
1951	236	1,350	782	2,971
1952	273	1,964 2/	1,035 2/	3,299
1953	323	1,928 2/	1,045 2/	4,156 2/
1954	...	1,843 2/	1,061 2/	4,355 2/
1955	...	2,119 2/	1,151 2/	4,480 2,3/
Academic				
1956-57	...	1,976 2/	1,151 2/	5,112 2/
1959-60	543	1,597	1,090	3,700
1962-63	443	1,456	1,081	3,247
1965-66	615	1,891	1,050	3,993
1968-69	873	3,735	1,248	7,773
1971-72	987	7,101	2,735	15,210
1974-75	1,160	8,159	3,527	14,046
1977-78	1,202	7,297	3,277	12,630

1/ Admissions and graduations are for calendar years through 1955; academic years 1956-75. Enrollments as of January 1 through 1955; as of October 15 in 1957, 1960, 1963, 1966, 1969, 1972, and 1974.
2/ Includes all nonwhite students.
3/ 4,811 on October 14, 1955.

SOURCES: American Nurses' Association. Facts About Nursing: A Statistical Summary. New York, The Association, Annual eds.: 1944, p. 35; 1950, p. 47; 1954, p. 62; 1959, p. 79; 1962-63, p. 99; 1965, pp. 92-93; 1967, pp. 106-107; 1970-71, p. 85; 1972-73, p. 88, 1976-77, pp. 101 and 102.

Tate, Barbara L. and Carnegie, M. Elizabeth. "Negro Admissions, Enrollments, and Graduations-1963." Nursing Outlook, 13:2, February 1965, pp. 61-63.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 79-Admissions, graduations, and enrollments of black students in schools of nursing, by type of program: selected years, 1963-78

Type of program by year[1]	Admissions		Graduations		Enrollments	
	Number of black students	Percent of total admissions	Number of black students	Percent of total graduations	Number of black students	Percent of total enrollments
Baccalaureate						
1962-63	433	4.5	413	9.2	970	3.9
1965-66	544	4.2	206	3.7	1,300	3.9
1968-69	842	5.3	299	3.6	2,310	5.3
1971-72	2,407	8.8	472	4.3	5,810	7.9
1974-75	3,650	12.4	1,053	6.0	7,139	8.4
1977-78	2,900	8.2	992	4.3	6,318	6.8
Diploma						
1962-63	850	2.3	590	2.2	2,024	2.2
1965-66	779	2.0	642	2.4	1,717	1.9
1968-69	1,022	3.5	473	1.9	2,132	2.9
1971-72	1,131	3.8	587	2.7	2,330	3.2
1974-75	1,014	4.7	648	3.4	1,943	[illegible]
1977-78	3,569	4.3	1,965	2.2	4,903	[illegible]
Associate degree						
1962-63	173	5.0	78	[illegible]	253	4.0
1965-66	558	6.5	202	6.0	976	6.4
1968-69	1,871	10.0	476	5.5	3,331	9.6
1971-72	3,563	9.6	1,676	8.7	7,070	10.4
1974-75	1,014	4.7	648	3.4	1,943	3.7
1977-78	828	4.3	320	2.2	1,409	3.2
Total RN						
1962-63	1,456	2.9	1,081	3.3	3,247	2.6
1965-66	1,891	3.1	1,050	3.0	3,993	2.9
1968-69	3,735	5.8	1,248	3.0	7,773	5.2
1971-72	7,101	7.5	2,735	5.3	15,210	7.1
1974-75	8,159	9.1	3,527	5.7	14,046	6.8
1977-78	7,297	7.2	3,277	4.7	12,630	5.8
Total LPN/LVN						
1962-63	4,455	14.6	2,107	10.7	3,357	11.4
1965-66	6,669	17.2	3,910	15.2	6,088	16.6
1968-69	7,804	15.9	4,899	14.0	7,085	14.7
1971-72	8,545	13.8	5,458	12.3	7,722	13.1
1974-75	5,795	12.5	3,580	10.3	4,807	10.5
1977-78	5,883	11.1	3,515	8.9	5,141	10.6

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[1] Admissions and graduations are for the academic years specified; enrollments as of October 15, 1963, 1966, 1969, 1972, 1975, and 1978. These are minimum counts - not projected for non-reporting schools. Percentages are computed on totals in all schools.

SOURCES: Tate, Barbara L. and Carnegie, M. Elizabeth, "Negro Admissions, Enrollments, and Graduations--1963," Nursing Outlook, 13:2. February 1965, pp. 61-2.

American Nurse's Association. Facts About Nursing: A Statistical Summary. New York, The Association, Annual eds: 1965, p. 90; 1967, p. 109; 1970-71, pp. 85 and 197; 1972-73, pp. 88 and 192; 1976-77, pp. 101, 102, and 251.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 80-Minority students admitted to and graduated from initial programs, academic year 1977-78, and enrollments on October 15, 1978

Type of program and ethnic group	Admissions		Graduations		Enrollments	
	Number	Percent of total admissions 2/	Number	Percent of total graduations 2/	Number	Percent of total enrollments 2/
Baccalaureate	3,841	10.9	1,572	6.8	8,882	9.6
Black	2,900	8.2	992	4.3	6,318	6.8
Spanish-American	450	1.3	279	1.2	1,292	1.4
Other1/	491	1.4	301	1.3	1,272	1.4
Diploma	1,331	6.9	845	5.8	2,191	4.9
Black	828	4.3	320	2.2	1,409	3.2
Spanish-American	232	1.2	112	0.8	369	0.8
Other1/	271	1.4	413	2.8	413	0.9
Associate degree	5,141	11.1	3,072	9.7	7,244	8.7
Black	3,569	7.7	1,965	6.2	4,903	6.2
Spanish-American	982	2.1	697	2.2	1,418	1.8
Other1/	590	1.3	410	1.3	923	0.7
Total LPN/LVN	8,175	15.5	4,884	12.5	7,243	15.1
Black	5,881	11.1	3,515	9.0	5,141	10.7
Spanish-American	1,580	3.0	986	2.5	1,494	3.1
Other1/	714	1.4	383	1.0	608	1.3

1/ American Indian, Oriental.
2/ Percentages are based on totals in programs answering the questions.

SOURCE: National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 81- Graduate nurse students enrolled in and graduated from post-RN baccalaureate and higher degree programs in the United States and Puerto Rico: 1964-79

Year	Number of programs	Fall enrollments			Graduations
		Total	Full-time	Part-time	
		Baccalaureate programs for registered nurses			
1964-65	166	9,375	4,135	5,240	2,254
1965-66	180	9,021	4,404	4,617	2,386
1966-67	202	8,186	4,177	4,009	2,262
1967-68	182	8,467	4,393	4,074	2,164
1968-69	189	7,849	4,341	3,508	2,176
1969-70	195	8,329	4,156	4,173	2,413
1970-71	211	7,692	4,229	3,463	2,214
1971-72	234	7,700	4,696	3,004	2,337
1972-73	261	9,223	5,580	3,643	2,681
1973-74	274	11,641	6,335	5,306	3,003
1974-75	309	13,518	6,825	6,693	3,791
1975-76	251	15,854	7,661	8,193	4,759
1976-77	294	19,231	9,572	9,659	5,445
1977-78	309	23,259	10,447	12,812	6,146
1978-79	323	25,563	11,215	14,348	...
		Master's degree programs1/			
1964-65	53	2,836	2,100	736	1,379
1965-66	56	3,123	2,358	765	1,279
1966-67	59	3,488	2,767	721	1,534
1967-68	61	3,531	2,752	779	1,615
1968-69	66	4,018	3,034	984	1,766
1969-70	70	4,443	3,346	1,097	1,988
1970-71	73	4,765	3,529	1,236	2,083
1971-72	79	5,405	3,925	1,480	2,135
1972-73	84	6,342	4,324	2,018	2,446
1973-74	86	6,786	4,159	2,627	2,643
1974-75	92	7,924	4,462	3,462	2,694
1975-76	100	9,662	5,402	4,260	3,437
1976-77	106	10,809	5,942	4,885	3,830
1977-78	114	12,143	6,112	6,031	4,271
1978-79	119	13,105	6,561	6,544	...
		Doctoral programs in nursing			
1964-65	4	157	85	72	25
1965-66	4	211	94	117	14
1966-67	5	189	89	100	19
1967-68	5	258	103	155	39
1968-69	5	209	105	104	23
1969-70	6	286	170	116	27
1970-71	6	312	120	192	41
1971-72	6	293	151	142	27
1972-73	8	402	180	222	49
1973-74	9	375	161	214	46
1974-75	9	482	192	290	74
1975-76	12	506	199	307	62
1976-77	14	632	278	354	59
1977-78	16	790	294	496	53
1978-79	21	789	358	431	...

1/ Excludes data from one initial program leading to a master's degree in nursing.

SOURCES: National League for Nursing. Some Statistics on Baccalaureate and Higher Degree Programs in Nursing, 1976-77.. New York, The League, 1978. Also prior annual eds.

National League for Nursing. NLN Nursing Data Book, 1979, New York, The League, 1980

Table 82-Graduations from master's degree programs by nursing content and functional area of study - accumulated totals: 1967 through 1978

Nursing content area	Total graduations	Functional area of study				
		Administration	Supervision	Teaching	Advanced practice	Other 1/
		Number				
TOTAL	30,442	2,510	1,706	10,029	15,396	801
Medical-surgical	9,203	-	393	3,982	4,802	26
Maternal-child	5,022	-	169	1,830	3,012	11
Psychiatric-mental health	6,233	46	248	1,543	4,383	13
Public health	3,524	495	611	923	1,382	113
Other (sciences, combined majors, rehabilitation, etc.)	4,169	875	205	1,130	1,653	306
Not designated	2,291	1,094	80	621	164	332
		Percent				
TOTAL	100.0	8.2	5.6	33.0	50.6	2.6
Medical-surgical	100.0	-	4.3	43.3	52.2	0.2
Maternal-child	100.0	-	3.4	36.4	60.0	0.2
Psychiatric-mental health	100.0	0.7	4.0	24.8	70.3	0.2
Public health	100.0	14.1	17.3	26.2	39.2	3.2
Other (sciences, combined majors, rehabilitation, etc.)	100.0	21.0	4.9	27.1	39.7	7.3
Not designated	100.0	47.8	3.5	27.1	7.1	14.5

1/ Includes supervision and teaching when combined; research and functional area not specified.

SOURCES: National League for Nursing. Some Statistics on Baccalaureate and Higher Degree Programs in Nursing, 1976-77. New York. The League, 1978. also prior annual editions.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980 Page 66.

Table 83—Graduate nurse students enrolled full time and part time in colleges and universities, by region and State: October 15, 1958, 1968, and 1978

Region and State	Total			Baccalaureate			Master's degree and above		
	1958	1968	1978	1958	1968	1978	1958	1968	1978
United States	12,718	12,028	39,313	10,080	7,770	25,437	2,638[2]	4,258[3]	13,866[4]
Northeast	7,108	4,994	15,088	5,666	3,169	10,805	1,442[2]	1,825[3]	4,283[4]
North Central	2,909	2,929	9,364	2,365	2,008	6,108	544	921	3,246[4]
South	1,724	2,294	9,223	1,341	1,513	5,140	383	781[3]	4,083[4]
West	977	1,811	5,638	708	1,080	3,384	269	731[3]	2,254[4]
Alabama	137	83	1,179	118	62	863	19	21	316[4]
Alaska	--	1	57	--	1	57	--	--	--
Arizona	--	222	338	--	206	104	--	16	234[4]
Arkansas	3	15	123	3	15	45	--	--	78
California	411	799	2,769	307	443	1,647	104	356[3]	1,122[4]
Colorado	171	195	1,042	91	86	839	80	109	203[4]
Connecticut	79	158	620	60	125	394	19	33	226
Delaware	--	21	86	--	10	35	--	11	51
District of Columbia	386	257	533	158	38	82	228	219[3]	451[4]
Florida	62	124	608	62	79	510	--	45	98
Georgia	109	295	774	89	212	508	20	83	266
Hawaii	44	15	78	44	2	12	--	13	66
Idaho	--	8	37	--	8	37	--	--	--
Illinois	468	408	1,657	358	248	797	110	160	850[4]
Indiana	329	321	1,137	263	246	762	66	75	375[4]
Iowa	81	126	348	72	81	276	9	45	72
Kansas	41	46	454	41	31	166	--	15	288
Kentucky	87	122	516	87	122	441	--	--	75
Louisiana	128	52	208	128	38	129	--	14	79
Maine	--	3	20	--	3	20	--	--	--
Maryland	390	513	630	352	346	276	38	167	354
Massachusetts	1,033	767	1,259	835	308	735	192	459[3]	524[4]
Michigan	357	479	1,177	265	242	848	92	237	329[4]
Minnesota	297	134	472	223	56	262	74	78	210
Mississippi	16	24	175	16	24	85	--	--	90
Missouri	416	337	1,420	343	245	1,212	73	92	208
Montana	20	53	71	20	36	53	--	17	18
Nebraska	46	71	357	40	71	250	6	--	107
Nevada	--	23	69	--	23	69	--	--	--
New Hampshire	47	59	370	47	59	370	--	--	--
New Jersey	500	158	1,045	492	143	781	8	15	264
New Mexico	--	18	70	--	18	70	--	--	--
New York	3,856	1,900	9,336	2,773	781	6,790	1,083[2]	1,119[3]	2,546[4]
North Carolina	99	182	482	58	92	218	41	90	264
North Dakota	--	8	33	--	8	33	--	--	--
Ohio	425	575	1,450	357	419	970	68	156	480[4]
Oklahoma	--	68	172	--	68	78	--	--	94
Oregon	92	51	236	78	26	123	14	25	113
Pennsylvania	1,593	1,916	2,114	1,459	1,717	1,434	134	199[3]	680[4]
Rhode Island	--	28	310	--	28	267	--	--	43
South Carolina	5	30	351	5	30	192	--	--	159
South Dakota	17	9	19	17	9	19	--	--	--
Tennessee	113	34	595	106	26	402	7	8	193
Texas	148	322	1,971	118	208	687	30	114	1,284[4]
Utah	43	97	312	43	59	132	--	38	180[4]
Vermont	--	5	14	--	5	14	--	--	--
Virginia	13	128	519	13	119	327	--	9	192
Washington	191	324	548	120	167	230	71	157	318[4]
West Virginia	28	24	301	28	24	262	--	--	39
Wisconsin	432	415	840	386	352	513	46	63	327
Wyoming	5	5	11	5	5	11	--	--	--
Puerto Rico	32	97	144	32	79	126	--	18	18

[1] Detail of full time and part time enrollments is given in sources below.
[2] Includes 113 doctoral students in New York.
[3] Includes 238 doctoral students; 20 in California, 7 in the District of Columbia, 13 in Massachusetts, 185 in New York, and 33 in Pennsylvania. Excludes 168 full time and 16 part time enrollments for doctoral study in fields related to nursing.
[4] Includes 789 doctoral students; 45 in Alabama, 10 in Arizona, 42 in California, 2 in Colorado, 81 in the District of Columbia, 51 in Illinois, 10 in Indiana, 38 in Massachusetts, 48 in Michigan, 285 in New York, 18 in Ohio, 37 in Pennsylvania, 100 in Texas, 14 in Utah, and 8 in Washington. Excludes 69 full time and 91 part time enrollments for doctoral study in fields related to nursing.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 84-Graduate nurse students granted degrees in nursing from colleges and universities, by region and State: 1958, 1968, and 1978

Region and State	Total			Baccalaureate			Master's degree and above		
	1958	1968	1978	1958	1968	1978	1958	1968	1978
United States..........	3,072	3,680	10,430	2,067	2,042	6,122	1,005 1/	1,638 2/	4,308 3/
Northeast............	1,425	1,423	3,343	899	809	1,842	526 1/	614 2/	1,501 3/
North Central.......	852	826	2,484	604	506	1,564	248	320	920 3/
South...............	423	660	2,825	304	342	1,565	119	318	1,260 3/
West................	372	771	1,778	260	385	1,151	112	386	627 3/
Alabama................	32	49	205	23	20	141	9	29	64
Alaska.................	--	--	5	--	--	5	--	--	--
Arizona................	--	33	72	--	33	18	--	--	54
Arkansas...............	1	3	26	1	3	8	--	--	18
California.............	156	367	1,077	113	179	745	43	188	332 3/
Colorado...............	63	112	241	44	57	142	19	55	99
Connecticut............	26	49	146	5	38	71	21	11	75
Delaware...............	--	1	5	--	1	1	--	--	4
District of Columbia..	122	82	140	59	11	36	63	71	104 3/
Florida................	20	74	241	20	30	202	--	44	39
Georgia................	22	79	473	12	28	250	10	51	223
Hawaii.................	6	7	22	6	2	6	--	5	16
Idaho..................	--	9	17	--	9	17	--	--	--
Illinois...............	120	59	526	72	19	252	48	40	274 3/
Indiana................	45	93	295	29	91	219	16	2	76
Iowa...................	62	44	130	55	30	99	7	14	31
Kansas.................	18	20	64	18	20	45	--	--	19
Kentucky...............	11	29	98	11	29	67	--	--	31
Louisiana..............	33	20	50	33	15	17	--	5	33
Maine..................	--	--	5	--	--	5	--	--	--
Maryland...............	38	142	234	25	64	128	13	78	106
Massachusetts..........	241	313	644	183	110	280	58	203 2/	364 3/
Michigan...............	97	154	285	52	52	165	45	102	120 3/
Minnesota..............	143	58	215	84	12	122	59	46	93
Mississippi............	5	2	112	5	2	67	--	--	45
Missouri...............	147	137	363	105	93	288	42	44	75
Montana................	2	25	38	2	15	34	--	10	4
Nebraska...............	17	56	116	13	56	93	4	--	23
Nevada.................	--	3	16	--	3	16	--	--	--
New Hampshire..........	3	12	14	3	12	14	--	--	--
New Jersey.............	67	43	211	67	38	177	--	5	34
New Mexico.............	--	5	7	--	5	7	--	--	--
New York...............	821	601	1,727	424	276	929	397 1/	325 2/	798 3/
North Carolina.........	36	72	156	21	44	70	15	28	86
North Dakota...........	--	5	11	--	5	11	--	--	--
Ohio...................	100	123	273	82	73	144	18	50	129 3/
Oklahoma...............	--	21	48	--	21	15	--	--	33
Oregon.................	27	35	56	19	25	40	8	10	16
Pennsylvania...........	267	397	503	217	327	297	50	70 2/	206 3/
Rhode Island...........	--	8	91	--	8	67	--	--	24
South Carolina.........	2	3	94	2	3	62	--	--	32
South Dakota...........	9	4	7	9	4	7	--	--	--
Tennessee..............	26	9	116	25	5	40	1	4	76
Texas..................	57	52	585	49	44	268	8	8	317 3/
Utah...................	14	23	79	14	11	56	--	12	23
Vermont................	--	--	2	--	--	2	--	--	--
Virginia...............	13	20	168	13	20	125	--	--	43
Washington.............	101	151	145	59	45	62	42	106	83
West Virginia..........	5	2	74	5	2	68	--	--	6
Wisconsin..............	94	73	199	85	51	119	9	22	80
Wyoming................	3	1	3	3	1	3	--	--	--
Puerto Rico...........	5	--	40	5	22	24	--	--	16

1/ Includes 8 doctorates awarded in New York.

2/ Includes 23 doctorates; 3 in Massachusetts, 19 in New York, and 1 in Pennsylvania. Excludes 21 nurses graduated from doctoral programs in fields related to nursing.

3/ Includes 53 doctorates; 5 in California, 5 in the District of Columbia, 1 in Illinois, 1 in Massachusetts, 3 in Michigan, 27 in New York, 1 in Ohio, 3 in Pennsylvania, and 7 in Texas. Excludes 40 nurses graduated from doctoral programs in fields related to nursing.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 85-Earned degrees in nursing conferred by institutions of higher education by region: selected years 1926-78

Year	United States[1]	Region			
		Northeast	North Central	South	West
1926	33	2	15	5	11
1928	58	11	21	13	13
1930	63	23	31	2	7
1932	171	58	64	23	26
1934	224	53	95	43	33
1936	501	77	202	137	85
1938	596	113	182	146	155
1940	835	116	372	110	237
1942	893	197	385	74	237
1948	3,348	983	1,249	513	603
1950	3,283	1,020	998	556	709
1952	3,872	---	---	---	---
1954	4,275	---	---	---	---
1956	5,203	1,668	1,687	1,016	830
1958	5,722	1,817	1,350	1,171	879
1960	6,656	2,130	1,955	1,367	1,193
1962	6,653	2,169	1,981	1,352	1,135
1964	7,501	2,189	2,376	1,653	1,245
1966	7,874	2,146	2,340	1,786	1,569
1968	9,286	2,571	2,813	2,252	1,615
1970	11,497	3,186	3,293	2,881	2,072
1972	13,339	3,428	3,980	3,373	2,471
1973	15,771	4,014	4,746	4,035	2,843
1974	20,071	4,998	5,745	5,680	3,469
1975	23,991	6,031	6,727	7,225	3,909
1976	27,391	7,341	7,522	8,141	4,266
1977	29,023	7,872	7,759	8,623	4,564
1978	30,594	8,162	8,277	9,281	4,540
		Master's degree and above[3]			
1934	1	--	--	--	1
1936	2	--	1	1	--
1938	75	42	29	4	--
1940	106	49	48	9	--
1942	96	35	50	11	--
1948	200	117	55	22	6
1950	368	274	48	43	3
1952	550(3)	358(2)	107	62(1)	23
1954	601(3)	380(3)	111	61	49
1956	601(5)	328(5)	162	64	47
1958	1,026(8)	547(8)	248	119	112
1960	1,203(6)	564(6)	253	191	195
1962	1,111(13)	476(13)	232	183	220
1964	1,304(19)	514(19)	273	211	306
1966	1,303(14)	530(14)	257	244	272
1968	1,661(23)	637(23)	320	318	386
1970	2,036(27)	776(25)	424	428	398(2)
1972	2,187(27)	719(22)	479	461(2)	511(3)
1973	2,537(49)	806(41)	483	650(3)	582(5)
1974	2,730(46)	887	539	710(40	575(4)
1975	2,809(74)	978(56)	516	728(12)	571(6)
1976	3,545(62)	1,167(49)	688	979(11)	691(2)
1977	3,943(59)	1,255(39)	857	1,161(12)	640(8)
1978	4,373(53)	1,550(31)	920(5)	1,260(12)	627(5)

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[1] Puerto Rico included in United States totals but not in Region.
[2] Includes degrees earned in initial baccalaureate and in post - RN baccalaureate programs.
[3] Numbers in parenthesis indicate the number of doctoral degrees included in the count. A few master's degrees earned in initial programs also are included in totals.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 86-Earned degrees in nursing conferred by institutions of higher education, by region and State: selected years 1950-78

Region and State	Baccalaureate[1]				Master's Degree[2]			
	1950	1960	1970	1978	1950	1960	1970	1978
United States..........	3,283	6,645	11,432	30,260	368	1,203(6)	2,026(27)	4,357(53)
Northeast..........	1,020	2,130	3,186	8,162	274	564(6)	776(25)	1,550(31)
North Central..........	998	1,955	3,293	8,277	48	253	424	920
South..........	536	1,367	2,881	9,281	43	191	428	1,260(12)
West..........	709	1,193	2,072	4,54[illegible]	3	195	398(2)	627(5)
Alabama..........	7	72	102	702	—	8	15	64
Alaska..........	—	—	—	18	—	—	—	—
Arizona..........	6	—	181	276	—	—	13	54
Arkansas..........	—	21	54	156	—	—	—	18
California..........	289	454	817	2,131	—	64	199(2)	332(5)
Colorado..........	85	199	216	426	—	61	75	99
Connecticut..........	54	81	173	386	46	4	13	87
Delaware..........	—	—	50	142	—	—	2	4
District of Columbia..	166	98	105	343	40	106	125	104(5)
Florida..........	15	109	233	627	—	—	29	39
Georgia..........	5	51	123	581	—	14	[illegible]	223
Hawaii..........	—	39	46	68	—	[illegible]	4	16
Idaho..........	2	8	22	69	—	—	—	—
Illinois..........	239	176	454	1,267	25	10	62	274(1)
Indiana..........	76	189	334	929	—	32	36	76
Iowa..........	19	120	163	518	—	7	36	31
Kansas..........	27	74	112	401	—	—	5	19
Kentucky..........	6	55	148	395	—	—	—	31
Louisiana..........	25	123	217	534	—	—	10	33
Maine..........	15	—	38	112	—	—	—	—
Maryland..........	47	140	290	620	1	18	85	106
Massachusetts..........	142	366	423	1,165	3	129	249(3)	364(1)
Michigan..........	89	280	485	988	—	54	127	120(3)
Minnesota..........	47	342	380	754	—	69	35	93
Mississippi..........	—	20	43	323	—	—	—	45
Missouri..........	98	173	297	639	10	35	18	75
Montana..........	28	56	117	229	—	10	12	[illegible]
Nebraska..........	81	55	135	258	—	—	—	23
Nevada..........	—	—	25	68	—	—	—	—
New Hampshire..........	10	16	66	146	—	—	—	—
New Jersey..........	1	84	397	693	—	2	4	34
New Mexico..........	—	19	38	117	—	—	—	—
New York..........	597	1,163	1,227	3,642	206	398(6)	413(22)	835(27)
North Carolina..........	45	155	296	860	—	32	71	86
North Dakota..........	3	25	90	219	—	—	—	—
Ohio..........	220	327	323	1,076	9	33	82	129(1)
Oklahoma..........	6	35	72	312	—	—	—	33
Oregon..........	73	102	121	314	—	3	5	16
Pennsylvania..........	177	372	729	1,628	19	31	97	206(3)
Rhode Island..........	17	22	83	314	—	—	—	24
South Carolina..........	18	8	92	346	—	—	—	32
South Dakota..........	3	52	115	177	—	—	—	—
Tennessee..........	81	128	142	477	—	5	7	76
Texas..........	72	243	545	1,974	2	8	29	317(7)
Utah..........	55	62	96	173	—	—	11	23
Vermont..........	3	26	50	76	—	—	—	—
Virginia..........	53	94	273	665	—	—	3	43
Washington..........	171	241	355	621	3	37	79	83
West Virginia..........	10	15	96	224	—	—	—	6
Wisconsin..........	96	142	405	1,051	4	13	23	80
Wyoming..........	—	13	38	30	—	—	—	—

[1] Includes degrees earned in initial and post - RN baccalaureate programs.
[2] Numbers in parenthesis indicate doctoral degrees included in the count.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

National League for Nursing. NLN Nursing Data Book, 1979. New York, The League, 1980.

Table 87-Full-time and part-time nurse faculty in RN programs by type of program, by region and State: January 1978

Region and State	Full-time				Part-time			
		Type of program				Type of program		
	Total	Baccalaureate and higher	Associate degree	Diploma	Total	Baccalaureate	Associate degree	Diploma
United States	20,086	8,737	5,865	5,484	4,439	1,916	1,607	916
Northeast	5,235	1,937	1,197	2,101	1,285	556	391	338
North Central	6,263	2,630	1,403	2,230	1,603	675	534	394
South	6,073	2,858	2,239	976	910	346	410	154
West	2,515	1,312	1,026	177	641	339	272	30
Alabama	403	228	120	55	33	17	12	4
Alaska	243	19	5	-	4	2	2	-
Arizona	218	135	83	-	47	29	18	-
Arkansas	154	57	85	12	21	1	17	3
California	1,115	495	526	94	282	177	97	8
Colorado	196	119	47	30	45	20	20	5
Connecticut	282	161	31	90	82	40	25	17
Delaware	93	42	21	30	43	19	13	11
District of Columbia	168	132	18	18	21	15	3	3
Florida	418	117	259	42	61	10	51	-
Georgia	426	141	177	108	64	16	29	19
Hawaii	41	17	24	-	9	6	3	-
Idaho	53	21	32	-	18	7	11	-
Illinois	1,262	513	210	479	228	102	65	61
Indiana	556	277	160	119	125	37	71	17
Iowa	387	160	74	153	119	42	41	36
Kansas	291	123	72	96	69	40	16	13
Kentucky	255	111	117	27	28	11	17	-
Louisiana	341	173	88	81	29	12	5	12
Maine	96	41	32	23	36	14	13	8
Maryland	389	202	125	62	106	36	57	13
Massachusetts	840	293	180	367	234	105	56	73
Michigan	710	332	187	191	300	100	158	42
Minnesota	325	179	99	47	111	59	28	24
Mississippi	231	99	115	17	33	15	15	3
Missouri	636	244	123	269	101	51	31	19
Montana	63	52	5	6	15	10	5	-
Nebraska	294	120	68	106	58	20	14	24
Nevada	37	21	16	-	4	-	4	-
New Hampshire	128	42	10	76	19	8	4	7
New Jersey	567	110	173	284	112	32	46	34
New Mexico	97	48	49	-	22	12	10	-
New York	1,720	784	511	425	573	290	188	95
North Carolina	540	272	178	90	136	52	63	21
North Dakota	180	50	16	42	32	21	2	9
Ohio	1,146	382	205	559	269	84	84	101
Oklahoma	216	112	85	19	28	10	18	-
Oregon	178	76	77	25	41	14	23	4
Pennsylvania	1,449	439	202	808	219	64	52	103
Rhode Island	112	49	35	28	4	3	-	1
South Carolina	246	139	99	9	33	15	17	1
South Dakota	99	41	26	32	40	23	14	3
Tennessee	459	181	174	104	43	23	17	3
Texas	1,019	595	344	80	107	57	43	7
Utah	130	83	47	-	36	19	17	-
Vermont	41	18	23	-	7	-	7	-
Virginia	521	191	147	183	80	23	17	40
Washington	337	207	108	22	104	36	55	13
West Virginia	193	67	87	39	44	14	16	14
Wisconsin	449	209	103	137	151	96	10	45
Wyoming	26	19	7	-	14	7	7	-
Guam	12	-	12	-	-	-	-	-
Puerto Rico	114	57	57	-	18	3	15	-
Virgin Islands	5	-	5	-	-	-	-	-

SOURCE: National League for Nursiang. NLN Nursing Data Book, 1979, New York, The League, 1980, p. 87.

Table 88-Full-time nurse faculty[1] in initial and graduate nursing programs and proportion holding baccalaureate or higher degrees, by region and State: 1949, 1964 and 1978

Region and State	Total full-time faculty			Faculty with baccalaureatge or higher degrees					
				Number			Percent		
	1949	1964	1978	1949	1964	1978	1949	1964	1978
United States	10,431	12,504	20,086	5,722	10,113	19,438	55	81	97
Northeast	3,830	4,411	5,235	2,090	3,562	5,038	55	81	96
North Central	3,475	4,009	6,263	1,971	3,175	6,015	57	79	96
South	2,088	2,727	6,073	939	2,091	5,910	45	77	97
West	1,038	1,357	2,515	722	1,285	2,475	70	[illegible]	98
Alabama	99	149	403	33	115	391	33	77	97
Alaska	-	-	24	-	-	24	-	-	100
Arizona	35	97	218	19	91	216	54	94	99
Arkansas	50	59	154	13	33	140	26	56	91
California	384	654	1,115	278	640	1,103	72	98	99
Colorado	145	121	196	110	117	191	76	97	97
Connecticut	286	278	282	183	216	273	64	78	97
Delaware	57	45	93	26	26	87	46	58	94
District of Columbia	75	115	168	65	102	168	87	89	100
Florida	98	178	418	39	165	414	40	93	99
Georgia	83	210	426	39	148	412	47	70	97
Hawaii	25	35	41	24	35	41	96	100	100
Idaho	44	26	53	19	20	52	43	77	98
Illinois	714	785	1,262	352	597	1,228	49	76	97
Indiana	243	296	556	124	244	549	51	82	99
Iowa	217	262	387	107	178	324	49	68	84
Kansas	182	161	291	80	115	290	44	71	100
Kentucky	90	158	255	39	116	249	43	73	98
Louisiana	115	142	342	60	131	337	52	92	99
Maine	82	71	96	27	46	89	33	65	93
Maryland	233	285	389	126	214	385	54	75	99
Massachusetts	626	793	840	305	671	821	49	85	98
Michigan	385	468	710	233	400	672	60	85	95
Minnesota	294	345	325	202	299	323	69	87	99
Mississippi	89	73	231	34	56	220	38	77	95
Missouri	297	322	636	179	252	612	60	78	96
Montana	56	58	63	36	55	60	64	95	95
Nebraska	127	155	294	77	117	278	61	75	95
Nevada	-	11	37	-	11	36	-	100	97
New Hampshire	88	81	128	32	58	114	36	72	89
New Jersey	370	379	567	172	319	545	46	84	96
New Mexico	17	8	97	11	7	94	65	88	97
New York	1,238	1,459	1,720	742	1,157	1,661	60	79	97
North Carolina	225	305	540	55	214	515	24	70	95
North Dakota	68	71	108	32	55	101	47	77	94
Ohio	640	790	1,146	396	612	1,106	62	77	97
Oklahoma	75	76	216	39	66	214	53	87	99
Oregon	80	92	178	61	80	176	76	87	99
Pennsylvania	1,038	1,226	1,449	559	988	1,382	54	81	95
Rhode Island	46	81	112	31	69	112	67	85	100
South Carolina	92	122	246	24	70	245	26	57	100
South Dakota	83	88	99	44	74	95	53	84	96
Tennessee	135	183	459	77	132	442	57	72	96
Texas	259	316	1,019	141	267	1,014	54	84	100
Utah	52	65	130	37	56	130	71	86	100
Vermont	56	43	41	39	38	41	70	88	100
Virginia	186	199	521	81	157	493	44	79	95
Washington	200	177	337	127	160	326	64	90	97
West Virginia	128	112	193	48	79	184	38	71	95
Wisconsin	225	226	449	145	232	437	64	87	97
Wyoming	-	13	26	-	13	26	-	100	100
Guam	-	-	12	-	-	12	-	-	100
Puerto Rico	46	33	114	5	19	109	11	58	96
Virgin Islands	-	-	5	-	-	5	-	-	100

[1] Includes full time nurse instructors for reporting schools only.

SOURCES: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA)75-43. Washington, U.S. Government Printing Office, 1974.

National League for Nursing. NLN Nursing Data Book, 1979, New York, The League, 1980, p. 88.

Chapter V

Nursing Personnel in Various Fields of Nursing Employment

Nursing Personnel in Hospitals

In this section are employment statistics for nursing personnel in several of the major nursing employment settings as well as salary information, wherever available, for nursing personnel employed in those settings.

The employment statistics found in this section have been collected from various published and unpublished sources. The hospital statistics are from data collected by the American Hospital Association (AHA) from their listed hospitals, and the American Osteopathic Hospital Association (AOHA) from its listed hospitals. The nursing home data on nursing personnel are from the Master Facilities Inventory and special surveys by the National Center for Health Statistics, U.S. Public Health Service. The data on nursing personnel employed in public health/community health nursing agencies or engaged in occupational health or industrial nursing duties are from the Surveys of Public Health Nursing. Although some of the information presented is dated, it is the latest available data on the mix of nursing personnel in the various nursing employment settings.

The salary information presented has been compiled from the Bureau of Labor Statistics, Industry Wage Surveys; the annual salary surveys of the National League for Nursing; and the 1977 National Sample Survey of Registered Nurses discussed in chapter I.

For the biennial national estimates of total registered nurse supply by field of employment developed by ICONS (chapter I), the input data for the hospital field comprised (a) numbers of RNs as shown in tables 89 and 93 projected to the total numbers of AHA and AOHA hospitals in the country, minus the faculty members in the hospital schools of nursing, and (b) an estimate of numbers employed in hospitals and institutions not listed with the American Hospital Association.

Table 91 counts all nursing personnel employed in the nursing service and other departments of AHA hospitals in 1968, 1970, and 1972. Table 92 is a complete count of clerical personnel employed in 1970 and 1972 in the various units of the nursing service departments in all hospitals, and includes also similar data for the AHA U.S. hospitals in 1968. For comparison of trends, however, the number of hospitals shown in the table is a major consideration.

The staff nursing personnel assigned to the inpatient units in AHA hospitals are reported by type and ownership of the hospitals for 1968, 1970, and 1972 in table 94. This table also includes the number of hospitals, hospital beds, and the average daily patient census.

Two types of analytical information about hospital nursing personnel are presented in tables 95 and 111: nurse-patient ratios on bedside nursing units and supervisory-staff level nurse ratios. The nurse-patient ratios indicate the amount of nursing service available to patients, while the supervisory -staff ratio shows the amount of supervision available to general duty registered nurses and other nursing personnel. These ratios shed some light on the adequacy of staffing on hospital inpatient units. However, the ratios indicated reflect the total nursing personnel available and not the nursing service provided to patients at any given time. Since staffing of hospitals is on a 7-day, 24-hour basis, to determine service to patients one has to take into account the actual hours worked in providing for staffing.

For those who wish to convert nurse-patient ratios to hours of care, a transformation factor has been developed as follows:

> In hospitals where nursing personnel work 40 hours a week, 45 weeks a year, each person works approximately 1,800 hours per year (i.e., 40 X 45). The number of patient days per year is the product of 365 multiplied by the average daily patient census. If R represents the number of nursing personnel per 100 patients, NP the total numbers of nursing personnel, ADPC the average daily patient census, and C the average hours of care available per patient per day, the following relationship can be stated:
>
> $$R = \frac{100\ (NP)}{(ADPC)} \quad \text{or} \quad \frac{R}{100} = \frac{(NP)}{(ADPC)}$$
>
> $$C = \frac{1800\ (NP\ )}{365\ (ADPC)}$$
>
> $$C = \frac{1800}{365} \times \frac{R}{100} = \frac{R}{18}$$
>
> Therefore, the average hours of care available per patient in each 24-hour period is about 1/18 of the number of nursing personnel per 100 patients.

Nurse-patient ratios for 1959, 1966 and 1972 have been calculated for (a) general and allied special hospitals, (b) psychiatric hospitals, and (c) tuberculosis hospitals. The 1972 data also includes other long-term hospitals and a summary by census region (table 103). The ratios include registered nurses, licensed practical nurses, and aides, orderlies, and attendants to give greater detail of nursing care available to patients. All ratios are in terms of full-time equivalent personnel, i.e., two part-time persons are estimated as equivalent to one full-time person. The table footnotes describe which personnel are included in the ratios.

Caution must be observed in using these ratios, as considerable variability exists in size and type of hospital. In 1961, Levine and others found that the greatest variability in nurse staffing exists in the smaller and larger hospitals.[1] A 1968 study of 31 hospitals in Illinois also discusses variations in nurse staffing between and among hospitals;[2] and a more recent nation-wide study conducted by the American Hospital Association for the Division of Nursing examines the factors which influence nurse staffing levels and patterns in community hospitals.[3] Table 106 examines the difference by hospital size.

Tables 107 to 111 show the 1959, 1966, and 1972 ratios of supervisory to bedside nursing personnel giving direct care in terms of full-time equivalents. Table 112 gives the full-time equivalent personnel in hospitals by type of personnel and type of hospital.

An examination of more recent data on hospital nursing suggests a marked change in the staffing patterns from those in 1972. However, the latest data which allows for the type of examination made here is for 1972. Therefore, the ratios given in this chapter cannot be updated. Table 112 does, however, present trend data on full-time equilvalent personnel in hospitals for the period 1973-79.

Data on the average rates of compensation for registered nurses, licensed practical nurses, and nursing aides, orderlies, and attendants in hospitals are given in tables 113 to 116. The Bureau of Labor Statistics information covers only 22 large metropolitan areas in the country. It is known that hospital salary levels differ according to the size and type of hospital as well as according to geographic location of the hospital. Generally, higher salaries are paid in larger population centers. Thus, the salary levels shown in the tables for hospital employed nursing personnel cannot be taken as representative of the general salary levels for all such personnel.

Nursing Personnel in Nursing Homes

Until recent years, the numbers of registered nurses employed in nursing homes were estimated by ICONS and included in the totals for hospitals and other institutions to avoid duplicate counting; for example, some RNs in special homes or extended care facilities under hospital control may have been counted in both hospital and nursing home surveys. The 1972 Inventory of Registered Nurses provided the first check on estimates made from employer counts of RNs in nursing homes.

Few extensive surveys have been made of nursing personnel employed in nursing homes by State. The Master Facility Inventory of 1971 reported totals of more than 53,000 licensed practical nurses and 66,000 registered nurses employed in nursing homes that year (table 117). The figure for registered nurses, however, is considerably higher than the actual count of 53,988 RNs who reported themselves as employed in nursing homes in the 1972 RN inventory period (chapter III, table 44), and is more than 10,000 higher than the estimated number when adjustment is made for nonrespondents to the query about field of employment at the time of the 1972 RN inventory.

In the 1977 RN inventory, 72,692 RNs reported themselves as employed in nursing homes (chapter III, table 45). If adjustments were to be made for nonresponse to the question about field of employment in the 1977 RN inventory, this figure would compare favorably to the figure for RNs employed in nursing homes estimated in the 1977 Sample Survey. In that study 79,647 registered nurses were determined to be working in nursing homes (chapter I, table 11). The 1978 Master Facility Inventory reported 76,663 registered nurses employed in nursing homes in that year (table 120).In addition to the reports of the Master Facilities Inventory, four special surveys of employees in nursing homes have been made based on sample data from the Master Facility Inventory in 1964, 1968, 1973-74, and 1977.[4] [5] [6] [7]

Tables 118 and 119 present data on nursing care homes and personal care homes with nursing as defined in the four reports cited. The nursing personnel exclude administrators who also have nursing duties. Ratios are given in terms of full-time equivalent personnel. In 1964 and 1968 the full-time equivalents (FTE) equals persons working full time plus one-half of those working part time. In 1973-74 and 1977 full-time equivalents equal persons working full time plus the FTE of part-time workers obtained by dividing the number of hours worked per week by 35 hours, defined as the normal work week.

Table 121 gives the average hourly earnings of registered nurses, licensed practical nurses, and nursing aides in privately-owned nursing homes and related facilities by region and metropolitan area.

Nursing Personnel in Public Health/Community Health Services

The earliest known counts of public health nurses in the United States was reported by Harriett Fulmer at the International Congress of Nurses in Buffalo, New York, in 1901. At that time there were 58 public health nurses. In 1912, Mary Gardner found that approximately 3,000 nurses were engaged in what we now call public health nursing or community health nursing services.From 1916 to 1931 periodic enumerations of public health nursing agencies and the nurses they employed were recorded by the Statistical Department of the National Organization for Public Health Nursing.[8]

Since 1937, the State Directors of Public Health Nursing and the Division of Nursing, U.S. Public Health Service have systematically collected and compiled data about numbers and educational preparation of nurses employed for public health work in the United States. State and local official and nonofficial (voluntary) public health agencies, boards of education, national agencies and universities and in some years industries have supplied the information. The counts were reported annually from 1937 through 1953, then in 1955 and 1957, and biennially since 1960. Puerto Rico has been included in the count since 1942, the Virgin Islands since 1944, and Guam since 1962.[9]

The survey reports from 1956 up until 1972 were used by the Interagency Conference on Nursing Statistics, as basic input data for the public health and school fields, in its national estimates of total nurse supply (chapter I). These counts of public health and school nurses (RNs) differ significantly from the inventory totals for these fields (chapter III) for several reasons: (1) the data collection methodology differs, i.e., employer counts versus the self-enumeration technique of the inventory; (2) the date of reference differs--employer counts are as of a specific day, January 1, while the inventory period of reporting extends over a year or more; (3) definitions may differ--the other data are collected from employers who are specifically selected as being in the public health area, while the inventory respondents, i.e., the nurses are asked to check field of employment without specific definition.

As changes occurred in the pattern of delivery of community health services, changes were also made to the biennial census of nurses in public health. For example, the count was broadened to include nurses employed in hospital-based home care programs, other home health agencies, community/neighborhood health centers, and mental health centers. The early pattern of counting only registered nurses was augmented by the addition of other professional non-nursing disciplines, licensed practical nurses, and auxiliary nursing personnel.

On January 1, 1979 there were 13,753 national, State, and local health agencies in the United States, Puerto Rico, Guam, and the Virgin Islands employing 81,219 registered nurses and 6,906 licensed practical nurses for public health work. Of all agencies reported, local official health agencies ranked as the largest employers of nursing staff; they employed nearly 31,250 RNs and LPNs or more than 35 percent of all those in public health. Local boards of education employed the second largest number, accounting for nearly 25 percent of nurses in public health/community nursing services.[10]

The State and regional distributions of nurses in public health/community health (tables 122 to 127) include data on nurses employed by the State and local agencies only.

The total number of registered nurses employed by health agencies and boards of education for public health/community health services in the United States and territories has more than tripled since 1947; the increase from 1964 to 1979 is 39 percent (table 122).

The number of RNs working part time increased from 7,078 or 12.5 percent of the total reported in 1972 to 11,925 or more than 11 percent of the total reported 7 years later. In same time period, the total number of licensed practical nurses increased from 3,304 of whom 13 percent worked part time, to 6,906 of whom 30 percent worked part time.

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The distribution of registered nurses in local agencies by type of agency is shown in table 123. While the proportions employed by official health agencies and by boards of education have decreased over the 1972-7974 period, the proportion employed in other health agencies has grown significantly between 1972 and 1979. The proportion of RNs employed by State agencies is not shown directly in the table, but they represent the difference between 100 percent and the sum of the percentages for the three groups of local agencies.

Table 124 shows the number of licensed practical nurses employed by the same groups of agencies as shown for RNs (except that 266 LPNs in State agencies in 1974 are included with the numbers entered for official health agencies that year). In 1964 all LPNs were employed by local agencies. The State and local health departments and combination services employed 5.25 percent of LPNs in 1964, 61.2 percent in 1974.

The numbers of auxiliary personnel working in the public health agencies throughout the country were first reported with the counts of nurses in 1972. In 1979 over 13,000 agencies reported employing 35,073 full time and part time auxiliaries to nurses, including home health aides and homemakers, nursing aides, and other auxiliary nursing personnel. In addition, over 21,160 clerical personnel and 3,472 nonnursing aides and auxiliaries were employed by these agencies (table 125).

Behind the impetus of Federal legislation the demand for nursing care of the sick at home increased markedly during the 1960's. Since 1959, the Division of Nursing has collected data periodically on the availability of such services The 1963 survey showed that about 55 percent of the U.S. population lived in places where an organized program for nursing care of the sick at home was available from 1,163 agencies on a continuing basis as needed.[11] By 1972, 187.3 million or 92 percent of the U.S. population lived in areas where services were available from 3,151 agencies on a continuing basis although nearly 747 of these limited care to certain categories of patients.[12]

Over the past 30 years there has been a dramatic increase in the proportion of staff registered nurses in public health who hold baccalaureate or higher degrees--from 10 percent in 1942 to 42 percent in 1972 for the United states. Information on highest academic credential was not collected in the 1974 survey. The regions have shown comparable increases. The West has consistently reported much higher percentages than the national averages of staff nurses academically qualified for public health work in terms of approved public health preparation and a baccalaureate or higher degree (table 126).

The RNs in administrative, consultative, and supervisory positions, however, show an overall decline between 1962 and 1972 in proportions with baccalaureate or higher degree preparation--from 73 percent to 68 percent. Only the West shows improvement within that 10-year period (table 127).

Caution should be exercised in the use of the statistics in both tables 126 and 127. The 1972 figures include both full time and part time RNs and are based on a 31 percent sample of staff nurses and a 48 percent sample of administrative personnel counted in table 122. The figures for prior years include full time RNs only and percents are based on the totals for whom educational preparation was reported. Also, the addition of other position titles to the administrative category in 1972, i.e., coordinators and "other administrative positions," may have affected the proportions, especially where the N's are small.

Tables 128 and 129 present median annual salaries for registered nurses, licensed practical nurses and other auxiliary nursing personnel working in public health agencies. Trends in salaries since 1975 are shown for registered nurses engaged in public health/community health work by type of agency and position in table 128. Table 129 gives the trends in salary since 1975 for licensed practical nurses and other auxiliary nursing personnel.

Nursing Personnel in Occupational Health

Concurrent with the requests for public health nursing data, industries have been asked to furnish data to the State directors of public health nursing on nurses engaged in occupational health or industrial nursing duties. Such data were included as a separate section of the public health nursing counts if the reports were reasonably complete. In other years, information has been collected from employers of occupational health nurses by the Division of Occupational Health of the U.S. Public Health Service. The annual data within the series of reports are not strictly comparable as some years do not include all States; others contain incomplete counts for many States, and still others include estimates where actual figures were not available. Therefore, table 130 showing numbers of registered nurses employed by industries in 1950 and 1960 should be read with these limitations in mind.

The 1972 distribution of administrative and staff registered nurses in occupational health work by region and State has been estimated from sample data with the assistance of staff from the National Institute for Occupational Safety and Health (table 131). The total number for the United States, Puerto Rico, and the Virgin Islands (20,166) includes 18,582 full-time and 1,584 part-time RNs. The data are projected from a sample of nearly 3,400 nurses in 1,400 industries with 2.7 million employees.

The report on nurses working in industry (occupational health) compiled with the inventory data are shown in tables 40 to 45. A summary of the inventory totals by census regions is contained in table 132. The trend in the numbers of RNs who reported themselves active in the occupational health field during the inventory periods over the years showed a gradual decrease in proportions employed in the Northeast as the proportions in the South increased.

of RNs who reported themselves active in the occupational health field during the inventory periods over the years showed a gradual decrease in proportions employed in the Northeast as the proportions in the South increased.

The most comprehensive data about occupational health nurses ever assembled resulted from a questionnaire survey of the nurses who reported themselves active in this field during the 1962 inventory period. The Division of Occupational Health, U.S. Public Health Service, conducted the detailed study in 1964. Of the 17,018 nurses to whom questionnaires were sent, more than 80 percent returned usable questionnaires. Of the respondents, 10,025 indicated they were presently working as full-time occupational health nurses. The comprehensive report is based on these 10,025 nurses.[13]

Grouping the States by standard geographical regions, the study found that the largest concentrations of occupational health nurses were in the Northeast and North Central census regions, each of which had approximately 34 percent of the total. Twenty percent were located in the South and 12 percent in the West census regions in 1964. These proportions roughly equaled the 1962 and 1966 distributions shown in the inventories. Between 1966 and 1972, however, the South increased its proportion by 3.6 percent, while the other regions showed a slight decline. However, the Northeast and North Central regions still employed over 64 percent of the occupational health nurses.

Subject to the limitations of the data collection methods, incomplete reporting, missing data, and sampling error, only slight differences can be noted in the highest educational preparation expressed in percents of the RNs employed in occupational health nursing in 1957, 1964, and 1972.[14, 15, 16]

Table 133 gives the average weekly earnings of industrial registered nurses by census region for selected years. As was seen in the other fields of nursing employment, salaries vary considerably according to geographic location --salaries in the West far exceeded the other regions.

The average annual salaries for registered nurses employed full time in various fields of nursing employment are shown by region in table 134.

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Table 89-Registered nurses in hospitals, by type of position: selected years 1944-72

Year	Hospitals reporting[1]	Type of position[2]						
		All position	Administrative	Instructors and inservice education personnel	Supervisors and assistant supervisors	Head nurses and assistant head nurses	General duty nurses	Anesthetists and other nurses
1944 Total	6,611	123,307	4,405	3,826	18,722	23,658	64,741	7,955
Full time	---	---	---	---	---	---	56,766	---
Part time	---	---	---	---	---	---	7,975	---
1946 Total	6,280	146,602	8,423	4,174	18,295	25,555	84,792	5,363
Full time	---	---	---	---	---	---	71,447	---
Part time	---	---	---	---	---	---	13,345	---
1948 Total	6,335	196,120	9,468	5,207	20,436	29,516	121,318	10,175
Full time	---	---	---	---	---	---	104,041	---
Part time	---	---	---	---	---	---	17,277	---
1950 Total	6,430	205,389	9,725	5,533	21,834	32,385	128,246	7,666
Full time	---	---	---	---	---	---	108,603	---
Part time	---	---	---	---	---	---	19,643	---
1952 Total	6,665	225,613	10,166	6,259	22,997	35,839	142,065	8,307
Full time	---	---	---	---	---	---	112,324	---
Part time	---	---	---	---	---	---	29,721	---
1954 Total	6,096	245,370	10,106	7,125	23,385	38,757	157,065	8,932
Full time	---	---	---	---	---	---	120,735	---
Part time	---	---	---	---	---	---	36,330	---
1957 Total	6,569	287,369	13,138	9,860	30,283	45,886	176,260	11,942
Full time	---	229,431	12,264	8,749	27,724	43,551	127,024	10,119
Part time	---	57,938	874	1,111	2,559	2,335	49,236	1,823
1959 Total	6,177	306,599	12,690	[illegible],809	30,089	47,364	184,564	21,083
Full time	---	242,064	12,289	9,614	28,280	44,983	129,462	17,436
Part time	---	64,535	401	1,195	1,809	2,381	55,102	3,647
1962 Total	6,863	365,770	17,750	11,695	33,645	57,140	224,425	21,115
Full time	---	273,965	16,230	10,480	29,735	53,150	146,280	18,090
Part time	---	91,805	1,520	1,215	3,910	3,990	78,145	3,025
1964[3] Total	6,734	382,308	14,979	16,482	33,846	60,216	233,877	22,908
Full time	---	283,521	14,082	14,873	30,221	55,744	148,754	19,847
Part time	---	98,787	897	1,609	3,625	4,472	85,123	3,061
1966 Total	7,223	409,720	21,433	16,548	30,287	63,064	259,921	18,467
Full time	---	296,296	18,792	14,703	27,022	58,130	161,985	15,664
Part time	---	113,424	2,641	1,845	3,265	4,934	97,936	2,803
1968 Total	7,231	445,243	24,325	17,901	33,957	65,877	283,234	19,949
Full time	---	312,804	21,090	15,456	29,349	60,279	170,035	16,595
Part time	---	132,439	3,235	2,445	4,608	5,598	113,199	3,354
1970 Total	7,104	495,034	25,129	18,836	35,729	69,308	325,412	20,620
Full time	---	350,884	21,930	16,027	30,239	63,555	201,997	17,136
Part time	---	144,150	3,199	2,809	5,490	5,753	123,415	3,484
1972 Total	7,035	529,677	24,441	19,112	37,872	71,497	357,113	19,642
Full time	---	386,846	21,017	16,148	32,118	65,920	235,486	16,157
Part time	---	142,831	3,424	2,964	5,754	5,577	121,627	3,485

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[1] Beginning in 1966, figures from reporting hospitals were projected to all AHA hospitals.

[2] Prior to 1957 the American Hospital Association, in its Annual Survey of Hospitals, did not distinguish between full time and part time personnel except for general duty nurses. Data include general, tuberculosis, allied special, and psychiatric hospitals; and exclude osteopathic hospitals, nursing homes, and other institutions not listed by the American Hospital Association. All years include 48 States and the District of Columbia, and beginning in 1962, Alaska and Hawaii. The territories are not included.

[3] Estimated from sample data.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

Table 90-Licensed practical nurses, aides, orderlies, and attendants, and other auxiliary personnel in United States hospitals1/: 1941-59, and selected years, 1962-72

Year	Total	Licensed practical nurses	Aides, orderlies, attendants	Other auxiliary2/ personnel
1941	137,171	17,332	119,839	---
1942	142,151	22,161	119,990	---
1943	175,677	17,309	123,567	34,801
1944	174,341	3/	125,482	48,859
1945	182,533	3/	132,759	49,774
1946	146,130	3/	133,326	12,804
1947	161,247	3/	151,559	9,688
1948	189,134	3/	177,622	11,512
1949	234,808	33,272	201,536	---
1950	270,819	49,880	220,939	---
1951	270,839	40,816	230,023	---
1952	329,076	48,941	252,652	27,483
1953	347,369	54,123	265,976	27,270
1954	351,765	60,967	265,085	25,713
1955	402,210	65,765	308,920	27,525
1956	378,520	70,578	281,723	26,219
1957	462,947	83,558	319,874	59,515
1958	450,829	86,687	313,670	50,472
1959 4/	472,740	95,862	347,287	29,591
1962	526,825	126,825	400,000 (est.)	---
1964	---	128,803	---	---
1966 5/	714,841	160,766	507,935	46,140
1968 5/	818,364	185,391	544,306	88,667
1970 5/	896,232	221,899	559,071	115,262
1972 5/	896,744	237,346	543,871	115,527

1/ Includes full time and part time personnel.
2/ Includes volunteers 1943-48; ward maids 1952-53; "other auxiliary" unspecified 1954-59; clerical personnel on inpatient units 1966-72.
3/ Practical nurses counted as "attendants," 1944-48.
4/ Alaska and Hawaii included in 1959 and subsequent years.
5/ Projected for nonreporting hospitals.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 91-Nursing personnel employed in hospitals in the United States[1] by title of position: 1968, 1970, 1972

Position	1968			1970			1972		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
Totals									
Registered nurses	445,243	312,804	132,439	495,034	350,884	144,150	529,677	386,846	142,831
Licensed practical nurses	185,391	158,947	26,444	221,899	186,565	35,334	237,346	198,771	38,575
Aides, orderlies, attendants	544,306	484,302	60,004	559,071	488,084	70,987	543,871	475,092	68,779
Department of nursing service									
Director and assistant	12,332	11,519	813	12,980	12,239	741	13,295	12,453	842
Inservice education personnel	6,001	5,050	951	7,641	6,363	1,278	8,398	6,899	1,499
All other administrative	10,263	7,957	2,306	10,532	8,139	2,393	9,697	7,205	2,492
Supervisor and assistant	33,957	29,349	4,608	35,729	30,239	5,490	37,872	32,118	5,754
Head nurse and assistant	65,877	60,279	5,598	69,308	63,555	5,753	71,497	65,920	5,577
Staff nurse: RN	283,234	170,035	113,199	325,412	201,997	123,415	357,113	235,486	121,627
Licensed practical nurse	177,903	152,234	25,669	209,789	175,485	34,304	231,585	193,671	37,914
Aide, orderly, attendant	496,895	441,616	55,279	512,901	447,311	65,590	506,238	441,521	64,717
Other departments									
Administrator and assistant	1,730	1,614	116	1,617	1,552	65	1,449	1,359	90
Nurse anesthetist	9,148	7,603	1,545	9,856	8,113	1,743	10,802	8,738	2,064
Nursing school faculty	11,900	10,406	1,494	11,195	9,664	1,531	10,714	9,249	1,465
Research nurse	531	452	79	562	499	63	592	500	92
Central service: RN	3,242	2,749	493	2,850	2,433	417	2,534	2,143	391
All other areas: RN	7,028	5,791	1,237	7,352	6,091	1,261	5,714	4,776	938
Licensed practical nurse	7,488	6,713	775	12,110	11,080	1,030	5,761	5,100	661
Aide, orderly, attendant	47,411	42,686	4,725	46,170	40,773	5,397	37,633	33,571	4,062

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[1] 7,231 in 1968; 7,104 in 1970; and 7,035 in 1972 registered with the American Hospital Association in 50 States and the District of Columbia.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 92-Clerical personnel employed in departments of nursing service in hospitals: 1968, 1970, and 1972

Services	1968			1970			1972		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
	7,231 hospitals			7,104 hospitals			7,035 hospitals		
AHA hospitals[1/]	88,667	75,361	13,306	115,262	97,468	17,794	115,527	95,878	19,649
Administrative	5,335	4,634	701	7,123	6,351	772	6,570	5,741	829
Inpatient unit	67,960	57,286	10,674	87,167	72,874	14,293	85,870	70,285	15,585
Operating room	9,526	8,599	927	12,727	11,453	1,274	13,651	12,321	1,330
Outpatient and emergency	5,846	4,842	1,004	8,245	6,790	1,455	9,436	7,531	1,905
				69 hospitals			73 hospitals		
AHA hospitals in territories[2/]	---	---	---	550	539	11	671	661	10
Administrative	---	---	---	35	33	2	33	32	1
Inpatient unit	---	---	---	418	414	4	421	415	6
Operating room	---	---	---	30	29	1	94	92	2
Outpatient and emergency	---	---	---	67	63	4	123	122	1
				713 hospitals			527 hospitals		
Non-AHA hospitals[1/]	---	---	---	4,652	3,873	779	2,199	1,833	366
Administrative	---	---	---	641	517	124	120	101	19
Inpatient unit	---	---	---	3,451	2,854	597	1,730	1,430	300
Operating room	---	---	---	313	296	17	221	209	12
Outpatient and emergency	---	---	---	247	206	41	128	93	35
				194 hospitals			164 hospitals		
Osteopathic hospitals (Non-AHA)[1/]	---	---	---	2,018	1,702	316	1,568	1,314	254
Administrative	---	---	---	259	180	79	64	56	8
Inpatient unit	---	---	---	1,415	1,218	197	1,232	1,017	215
Operating room	---	---	---	241	227	14	198	189	9
Outpatient and emergency	---	---	---	103	77	26	74	52	22

[1/] In 50 States and the District of Columbia.
[2/] American Samoa, Canal Zone, Pacific Islands, Puerto Rico, Virgin Islands, Guam.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 93-Nursing personnel in osteopathic hospitals[1] in the United States: selected years 1962-1974

Year	Reporting hospitals	Registered nurses		Practical nurses		Aides, orderlies, attendants	
		Full time	Part time	Full time	Part time	Full time	Part time
1962	152	2,398	...	2,110	...	3,602	...
1964	168	2,178	920	2,437	331	4,568	568
1966	159	2,475	1,226	2,506	565	5,402	869
1968	...	...	...	...	...	...	...
1970	186	4,324	2,048	3,930	1,052	...	...
1972	180	5,402	2,169	4,251	1,081	...	...
1974	143	5,497	2,283	3,618	1,077	...	...

[1] In reporting hospitals only.

SOURCES: American Nurses' Associat;ion. Facts About Nursing: A Statistical Summary, New York, The Association, Annual eds.: 1964, pp. 26 and 186; 1966, pp. 20 and 168; 1968, pp. 29 and 161; 1970-71, pp. 29 and 182; 1972-73, pp. 29 and 175; 1976-77, pp. 32 and 231.

Table 94-Bedside nursing personnel assigned to inpatient units in AHA hospitals by type and ownership of hospital: 1968-72

Year, type, and ownership	All AHA hospitals			Nursing personnel on inpatient units					
				Registered nurses 1/		Licensed practical nurses		Aides, orderlies, attendants	
	Number	Beds	Average daily census	Full time	Part time	Full time	Part time	Full time	Part time
1968-Grand total	7,231	1,663,268	1,382,994	142,312	102,714	137,677	23,998	404,923	51,308
Federal total	421	173,991	146,590	16,166	1,647	7,424	86	34,405	228
Long term	48	60,724	53,538	2,590	440	1,450	3	13,487	90
Short term	373	113,267	93,052	13,576	1,207	5,974	83	20,918	138
Non-Federal total	6,810	1,489,277	1,236,404	126,146	101,067	130,253	23,912	370,518	51,080
Psychiatric	497	581,271	530,230	3,616	934	9,518	197	112,103	1,823
Tuberculosis	113	20,834	13,745	412	150	1,161	32	2,861	118
Other long term	308	71,401	59,096	2,447	1,270	5,061	443	19,264	1,455
Short-term Gen. and other Spec.	5,892	815,771	633,333	119,671	98,713	114,513	23,240	236,290	47,684
Voluntary	3,464	573,747	455,992	93,721	82,599	78,089	18,005	161,170	35,253
Proprietary	785	48,588	35,151	4,648	3,756	7,110	1,529	15,831	3,179
State and local gov't	1,643	193,436	142,190	21,302	12,358	29,314	3,706	59,289	9,252
1970-Grand total	7,104	1,569,543	1,269,455	170,281	110,944	159,325	32,103	412,051	61,099
Federal total	405	158,578	126,545	16,146	1,829	7,478	167	31,888	357
Long term	82	74,036	61,984	4,951	895	2,331	52	16,104	155
Short term	323	84,542	64,561	11,195	934	5,147	115	15,784	202
Non-Federal total	6,699	1,410,965	1,142,910	154,135	109,115	151,847	31,936	380,163	60,742
Psychiatric	512	494,892	434,269	4,322	1,266	12,807	459	109,448	2,565
Tuberculosis	95	17,275	11,325	352	116	1,106	34	2,806	179
Other long term	257	57,410	47,304	2,134	1,072	4,171	524	16,828	1,357
Short-term Gen. and other Spec.	5,835	841,388	650,012	147,327	106,661	133,763	30,919	251,081	56,641
Voluntary	3,397	589,704	465,693	116,136	88,322	91,384	23,964	169,172	41,215
Proprietary	754	50,907	36,639	5,532	4,248	7,924	1,927	16,443	3,259
State and local gov't	1,684	200,777	147,680	25,659	14,091	34,455	5,028	65,466	12,167
1972-Grand total	7,035	1,486,315	1,172,104	198,488	107,639	175,766	35,168	405,003	59,955
Federal total	400	143,576	114,757	19,676	1,686	8,982	186	33,290	267
Long term	61	53,549	45,801	4,253	576	2,325	43	12,901	77
Short term	339	90,027	68,956	15,423	1,110	6,657	143	20,389	190
Non-Federal total	6,635	1,342,739	1,057,347	178,812	105,953	166,784	34,982	371,713	59,688
Psychiatric	500	382,214	329,046	4,727	1,165	13,563	355	100,239	1,815
Tuberculosis	75	11,927	8,214	342	89	1,028	34	2,399	115
Other long term	228	56,450	48,807	2,040	1,012	3,963	435	17,089	1,170
Short-term Gen. and other Spec.	5,832	892,148	671,280	171,703	103,687	148,230	34,158	251,986	56,588
Voluntary	3,329	614,163	473,299	132,872	84,561	100,873	25,863	165,934	40,760
Proprietary	726	56,460	38,574	6,801	4,845	9,109	2,141	16,936	3,705
State and local gov't	1,777	221,525	159,407	32,030	14,281	38,248	6,154	69,116	12,123

1/ Staff nurses only.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 95-Bedside nursing personnel[1] per 100 average daily patients in non-Federal short-term general allied and special hospitals, by size of hospital, 1972

Number of beds	Total	RNs	LPNs	Aides etc.
Total	99.6	33.5	24.6	41.6
6 - 24	121.2	29.2	23.9	68.1
25 - 49	104.9	18.9	25.9	60.1
50 - 99	101.9	21.3	27.4	53.2
100 - 199	103.2	31.0	27.7	44.4
200 - 299	102.7	38.7	24.5	39.6
300 - 399	98.4	38.0	23.1	37.3
400 - 499	99.3	37.2	24.1	38.0
500 - 999	96.8	37.1	23.8	36.0
1,000 and over	74.6	21.5	16.0	37.1

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[1] Includes bedside general duty staff working full time plus one-half of those working part time, as of the study week.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing, Nursing Personnel in Hospitals: 1972 Survey of Hospitals Registered with the American Hospital Association. DHEW Publication No. (HRA) 75-16, Washington, U.S. Government Printing Office, 1974.

Table 96-Bedside nursing personnel per 100 average daily patients[1] in general and allied special hospitals, by type of control and by region: 1959

Region and State	All types			Federal			Other government			Nongovernment		
	Total	Registered nurse 2/	Other 3/	Total	Registered nurse 2/	Other 3/	Total	Registered nurse 2/	Other 3/	Total	Registered nurse 2/	Other 3/
United States..........	79	24	55	49	13	36	76	17	59	88	28	60
Northeast............	75	27	48	44	12	32	70	14	56	81	32	49
North Central........	78	22	56	41	13	28	71	19	52	87	25	62
South................	80	19	61	54	14	50	83	16	67	89	22	67
West.................	85	28	57	51	13	38	81	21	60	103	36	67
Alabama................	94	22	72	69	20	49	101	22	79	99	23	76
Alaska.................	63	22	41	59	20	39	54	25	29	81	31	50
Arizona................	91	29	62	59	14	45	76	22	54	116	41	75
Arkansas...............	80	14	66	40	15	25	92	11	81	85	15	70
California.............	85	27	58	47	11	36	76	18	58	108	41	67
Colorado...............	79	23	56	55	13	42	96	34	62	84	24	60
Connecticut............	72	33	39	38	12	26	35	14	21	81	38	43
Delaware...............	66	20	46	53	14	39	21	—	21	86	29	57
District of Columbia..	78	27	51	57	15	42	75	20	55	101	40	61
Florida................	96	25	71	61	13	48	102	23	79	102	32	70
Georgia................	88	19	69	64	15	49	98	20	78	89	20	69
Hawaii.................	79	32	47	61	15	46	59	16	43	108	58	50
Idaho..................	100	28	72	47	14	33	121	31	90	102	30	72
Illinois...............	79	26	53	44	12	32	96	27	69	86	30	56
Indiana................	77	23	54	43	15	28	83	22	61	79	24	55
Iowa...................	61	20	41	42	17	25	27	6	21	83	29	54
Kansas.................	81	20	61	40	9	31	103	24	79	90	23	67
Kentucky...............	92	21	71	58	16	42	102	18	84	96	23	73
Louisiana..............	77	14	63	44	12	32	65	7	58	96	22	74
Maine..................	74	29	45	20	13	7	53	15	38	78	31	47
Maryland...............	77	21	56	55	14	41	57	10	47	92	28	64
Massachusetts..........	75	30	45	50	14	36	62	17	45	84	37	47
Michigan...............	77	19	58	39	12	27	58	14	44	94	23	71
Minnesota..............	89	31	58	41	17	24	88	29	59	94	33	61
Mississippi............	73	14	59	48	11	37	80	11	69	81	19	62
Missouri...............	78	18	60	37	10	27	87	18	69	85	20	65
Montana................	82	25	57	52	21	31	35	11	24	90	26	64
Nebraska...............	82	24	58	47	18	29	78	15	63	91	28	63
Nevada.................	91	29	62	61	17	44	90	26	64	120	47	73
New Hampshire..........	82	35	47	54	14	40	70	32	38	88	39	49
New Jersey.............	79	30	49	59	12	47	60	13	47	88	38	50
New Mexico.............	78	21	57	60	16	44	78	13	65	94	27	67
New York...............	78	21	57	41	11	30	80	13	67	84	27	57
North Carolina.........	73	23	50	54	17	37	80	24	56	75	24	51
North Dakota...........	80	22	58	62	21	41	67	—	67	82	22	60
Ohio...................	90	23	63	32	10	22	93	24	69	95	26	69
Oklahoma...............	82	13	69	56	17	39	83	7	76	92	13	79
Oregon.................	90	29	61	46	17	29	93	24	69	97	32	65
Pennsylvania...........	70	30	40	45	11	34	60	21	39	74	33	41
Rhode Island...........	75	30	45	41	16	25	25	4/	25	98	43	55
South Carolina.........	67	18	49	43	11	32	80	22	58	71	19	52
South Dakota...........	66	17	49	49	19	30	79	26	53	70	16	54
Tennessee..............	83	15	68	47	12	35	96	15	81	94	16	78
Texas..................	84	15	69	56	13	43	83	12	71	97	18	79
Utah...................	88	26	62	55	12	43	102	25	77	101	33	68
Vermont................	88	41	47	—	—	—	—	—	—	89	41	48
Virginia...............	72	20	52	53	13	40	68	17	51	80	24	56
Washington.............	91	31	60	51	15	36	108	33	75	106	39	67
West Virginia..........	74	20	54	41	13	28	85	32	53	81	21	60
Wisconsin..............	75	22	53	34	10	24	85	28	78	78	23	55
Wyoming................	95	32	63	32	12	20	106	40	66	106	27	79

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[1] Average daily patient census for the most recent 12-month period for which data were available at the time the schedule was completed.
[2] Includes staff nurses working full time plus one-half of those working part time as of the day on which the schedule was completed.
[3] Includes practical nurses, attendants, nursing aides, orderlies, and other auxiliary nursing personnel as of the day on which the schedule was completed.
[4] Less than 0.5.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-[illegible], Washington, U.S. Government Printing Office, 1974.

Table 97-Bedside nursing personnel per 100 average daily patients1/ in psychiatric hospitals, by type of control and by region: 1959

Region and State	All types			Federal			Other government			Nongovernment		
	Total	Registered nurse 2/	Other 3/	Total	Registered nurse 2/	Other 3/	Total	Registered nurse 2/	Other 3/	Total	Registered nurse 2/	Other 3/
United States..........	18.6	.7	17.9	28.0	3.1	24.9	17.2	.4	16.8	31.2	2.6	28.6
Northeast............	18.4	.7	17.7	28.1	3.5	24.6	17.4	.4	17.0	34.7	4.2	30.5
North Central.......	18.2	.5	17.7	28.2	2.2	26.0	16.6	.3	16.3	37.7	2.6	35.1
South...............	17.7	.6	17.1	27.8	3.2	24.6	15.5	.2	15.3	25.2	1.0	24.2
West................	21.5	1.2	20.3	28.1	3.6	24.5	20.3	.9	19.4	44.1	7.7	36.4
Alabama...............	17.0	.4	16.6	25.6	1.5	24.1	13.6	..	13.6	52.5	..	52.5
Alaska................	..	..	..	..	..	..	..	..	..	..	..	..
Arizona...............	23.4	1.5	21.9	..	..	..	22.9	1.0	21.9	45.9	24.3	21.6
Arkansas..............	20.7	.7	20.0	31.3	2.6	28.7	16.9	4/	16.9	..	..	..
California............	22.0	1.4	20.6	28.7	3.9	24.8	20.9	1.0	19.9	55.5	11.2	44.3
Colorado..............	19.2	.9	18.3	27.1	2.1	25.0	17.6	.8	16.8	41.4	1.6	39.8
Connecticut...........	20.4	.8	19.6	..	..	..	20.6	.7	19.9	15.6	2.7	12.9
Delaware..............	18.7	.3	18.4	..	..	..	18.7	.3	18.4	..	..	..
District of Columbia..	18.5	.4	18.1	..	..	..	..	..	..	18.5	.4	18.1
Florida...............	95.1	13.1	82.0	..	..	..	..	..	..	95.1	13.1	82.0
Georgia...............	14.3	.9	13.4	32.5	6.4	26.1	11.2	.1	11.1	77.3	..	77.3
Hawaii................	17.2	1.0	16.2	..	..	..	17.2	1.0	16.2	..	..	..
Idaho.................	23.5	.4	23.1	..	..	..	23.5	.4	23.1	..	..	..
Illinois..............	12.4	.5	11.9	27.0	2.3	24.7	10.7	.3	10.4	9.3	..	9.3
Indiana...............	21.8	.7	21.1	29.7	2.6	27.1	19.8	.3	19.5	71.7	9.3	62.4
Iowa..................	24.4	1.0	23.4	28.8	2.3	26.5	22.2	.4	21.8	26.4	1.2	25.2
Kansas................	29.2	.8	28.4	40.7	1.0	39.7	26.5	.5	26.0	61.8	13.2	48.6
Kentucky..............	18.0	1.2	16.8	23.5	2.8	20.7	16.0	.6	15.4	29.4	4.7	24.7
Louisiana.............	15.8	.5	15.3	..	..	..	15.5	.5	15.0	26.9	1.2	25.7
Maine.................	18.9	1.3	17.6	30.9	8.5	22.4	16.7	..	16.7	40.0	..	40.0
Maryland..............	22.5	.7	21.8	27.0	2.8	24.2	20.7	.3	20.4	41.1	1.5	39.6
Massachusetts.........	21.3	.7	20.6	28.1	2.7	25.4	19.7	.1	19.6	65.3	23.2	42.1
Michigan..............	18.5	.4	18.1	24.2	.5	23.7	17.7	.4	17.3	31.0	1.1	29.9
Minnesota.............	15.6	.6	15.0	26.7	3.0	23.7	14.5	.3	14.2	44.4	3.7	40.7
Mississippi...........	18.0	.8	17.2	30.5	4.1	26.4	15.5	.2	15.3	110.0	..	110.0
Missouri..............	19.9	.4	19.5	42.7	3.4	39.3	18.4	.1	18.3	35.0	3.7	31.3
Montana...............	17.5	..	17.5	..	..	..	17.5	..	17.5	..	..	..
Nebraska..............	20.4	.3	20.1	..	..	..	20.4	.3	20.1	..	..	..
Nevada................	..	..	..	..	..	..	..	..	..	..	..	..
New Hampshire.........	13.4	.1	13.3	..	..	..	13.4	.1	13.3	..	..	..
New Jersey............	20.8	.9	19.9	25.4	2.6	22.8	20.2	.8	19.4	30.6	1.6	29.0
New Mexico............	34.3	.8	33.5	..	..	..	32.4	.8	31.6	65.0	..	65.0
New York..............	17.6	.5	17.1	25.7	2.7	23.0	17.0	.4	16.6	42.3	2.4	39.9
North Carolina........	20.3	1.0	19.3	42.5	6.0	36.5	16.2	.1	16.1	53.6	4.9	48.7
North Dakota..........	16.9	..	16.9	..	..	..	17.1	..	17.1	..	..	..
Ohio..................	18.9	.6	18.3	24.3	2.5	21.8	17.2	.2	17.0	50.0	.6	49.4
Oklahoma..............	19.1	4/	19.1	..	..	..	18.8	..	18.8	43.5	3.2	40.3
Oregon................	17.3	1.0	16.3	25.7	4.4	21.3	15.9	.4	15.5	22.4	3.1	19.3
Pennsylvania..........	17.1	1.1	16.0	32.9	5.1	27.8	15.0	.6	14.4	34.7	3.8	30.9
Rhode Island..........	18.0	.6	17.4	..	..	..	18.2	.6	17.6	7.0	5.2	1.8
South Carolina........	11.3	.1	11.2	..	..	..	11.1	..	11.1	48.3	13.8	34.5
South Dakota..........	14.4	.5	13.9	..	..	..	14.4	.5	13.9	..	..	..
Tennessee.............	16.5	1.1	15.4	25.4	4.0	21.4	13.7	.5	13.2	72.1	.9	71.2
Texas.................	17.9	.4	17.5	24.8	2.1	22.7	16.1	.1	16.0	45.9	1.4	44.5
Utah..................	22.6	.3	22.3	..	..	..	22.6	.3	22.3	..	..	..
Vermont...............	24.0	..	24.0	..	..	..	22.3	..	22.3	28.0	..	28.0
Virginia..............	18.0	.7	17.3	26.7	3.3	23.4	16.1	.2	15.9	52.8	4.7	48.1
Washington............	22.6	1.1	21.5	26.9	3.4	23.5	21.9	.7	21.2	41.8	16.4	25.4
West Virginia.........	12.4	.2	12.2	..	..	..	12.1	.2	11.9	48.6	..	48.6
Wisconsin.............	22.6	.9	21.7	24.9	2.5	22.4	20.5	.6	19.9	64.2	3.8	60.4
Wyoming...............	23.2	1.9	21.3	29.3	3.0	26.3	16.3	.7	15.6	..	..	..

1/ Average daily patient census for the most recent 12-month period for which data were available at the time the schedule was completed.
2/ Includes staff nurses working full time plus one-half of those working part time as of the day on which the schedule was completed.
3/ Includes practical nurses, attendants, nursing aides, orderlies, and other auxiliary nursing personnel as of the day on which the schedule was completed.
4/ Less than 0.5.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

Table 98-Bedside nursing personnel per 100 average daily patients[1] in tuberculosis hospitals, by type of control and by region: 1959

Region and State	All types			Federal			Other government			Nongovernment		
	Total	Registered nurse 2/	Other 3/	Total	Registered nurse 2/	Other 3/	Total	Registered nurse 2/	Other 3/	Total	Registered nurse 2/	Other 3/
United States	30	5	25	33	10	23	29	4	25	28	3	25
Northeast	33	7	26	30	9	21	34	7	27	28	3	25
North Central	31	4	27	33	10	23	31	4	27	22	2	20
South	26	3	23	37	11	26	25	2	23	26	4/	26
West	32	6	26	33	11	22	31	5	26	31	6	25
Alabama	19	4/	19	--	--	--	19	--	19	18	4/	18
Alaska	--	--	--	--	--	--	--	--	--	--	--	--
Arizona	32	9	23	37	12	25	17	--	17	26	--	26
Arkansas	18	--	18	--	--	--	18	--	18	--	--	--
California	29	6	23	32	10	22	29	5	24	26	4	22
Colorado	29	5	24	--	--	--	--	--	--	29	5	24
Connecticut	45	11	34	--	--	--	45	11	34	--	--	--
Delaware	25	7	18	--	--	--	25	7	18	--	--	--
District of Columbia	--	--	--	--	--	--	--	--	--	--	--	--
Florida	33	2	31	--	--	--	33	2	31	--	--	--
Georgia	--	--	--	--	--	--	--	--	--	--	--	--
Hawaii	33	7	26	--	--	--	--	--	--	37	9	28
Idaho	38	2	36	--	--	--	38	2	36	--	--	--
Illinois	26	6	20	--	--	--	28	7	21	20	3	17
Indiana	30	1	29	--	--	--	30	1	29	--	--	--
Iowa	23	--	23	--	--	--	23	--	23	--	--	--
Kansas	33	--	33	--	--	--	33	--	33	--	--	--
Kentucky	24	2	22	32	10	22	23	1	22	--	--	--
Louisiana	24	4/	24	--	--	--	24	4/	24	--	--	--
Maine	49	8	41	--	--	--	49	8	41	--	--	--
Maryland	31	5	26	34	13	21	29	4	25	56	2	54
Massachusetts	40	8	32	31	8	23	44	7	37	37	3	34
Michigan	35	6	29	--	--	--	35	6	29	--	--	--
Minnesota	32	5	2[illegible]	--	--	--	32	5	27	--	--	--
Mississippi	32	1	31	--	--	--	32	1	31	--	--	--
Missouri	30	2	28	30	9	21	30	1	29	--	--	--
Montana	25	--	25	--	--	--	25	--	25	--	--	--
Nebraska	28	2	26	--	--	--	28	2	26	--	--	--
Nevada	--	--	--	--	--	--	--	--	--	--	--	--
New Hampshire	33	17	16	--	--	--	33	17	16	--	--	--
New Jersey	44	11	33	--	--	--	44	11	33	37	9	28
New Mexico	40	4	36	32	11	21	43	--	43	67	--	67
New York	33	7	26	31	9	22	34	7	27	27	2	25
North Carolina	28	7	21	41	12	29	20	3	17	--	--	--
North Dakota	--	--	--	--	--	--	--	--	--	--	--	--
Ohio	32	4	28	25	8	17	35	2	33	--	--	--
Oklahoma	32	2	30	74	19	55	27	--	27	--	--	--
Oregon	90	7	83	--	--	--	90	7	83	--	--	--
Pennsylvania	22	5	17	27	10	17	21	4	17	27	2	25
Rhode Island	46	1	45	--	--	--	46	1	45	--	--	--
South Carolina	18	5	13	--	--	--	18	6	12	5	--	5
South Dakota	15	--	15	15	--	15	--	--	--	--	--	--
Tennessee	39	3	36	--	--	--	40	3	37	29	--	29
Texas	21	2	19	27	7	20	21	2	19	22	--	22
Utah	20	3	17	--	--	--	20	3	17	--	--	--
Vermont	16	10	6	--	--	--	16	10	6	--	--	--
Virginia	32	5	27	--	--	--	32	5	27	--	--	--
Washington	39	9	30	--	--	--	39	9	30	--	--	--
West Virginia	21	4/	21	--	--	--	21	4/	21	--	--	--
Wisconsin	29	6	23	40	13	27	24	3	21	27	--	27
Wyoming	24	--	24	--	--	--	24	--	24	--	--	--

1/ Average daily patient census for the most recent 12-month period for which data were available at the time the schedule was completed.
2/ Includes staff nurses working full time plus one-half of those working part time as of the day on which the schedule was completed.
3/ Includes practical nurses, attendants, nursing aides, orderlies, and other auxiliary nursing personnel as of the day on which the schedule was completed.
4/ Less than 0.5.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 99-Bedside nursing personnel per 100 average daily patients in hospitals, by type of hospital, region and State: 1966

Region and State	General and allied special				Psychiatric				Tuberculosis			
	No. of Hospi-tals	Nursing personnel per 100 patients			No. of Hospi-tals	Nursing personnel per 100 patients			No. of Hospi-tals	Nursing personnel per 100 patients		
		Total	Regis-tered nurse1/	Other2/		Total	Regis-tered nurse1/	Other2/		Total	Regis-tered nurse1/	Other2/
United States..........	4,352	81.1	25.2	55.9	387	26.7	1.5	25.2	148	35.2	5.6	29.7
Northeast...........	804	76.9	30.2	46.7	113	24.5	1.3	23.1	24	36.4	9.2	27.2
North Central.......	1,338	83.0	25.4	57.6	123	27.7	1.2	26.5	60	36.7	4.7	32.0
South...............	1,357	81.5	18.4	63.2	87	26.4	1.7	24.7	43	32.1	3.1	29.0
West................	853	92.0	30.3	61.6	64	36.0	4.0	32.2	21	39.8	10.0	29.9
Alabama...............	71	89.6	20.1	69.5	6	29.7	2.0	27.7	3	18.6	..	18.6
Alaska................	16	89.2	30.6	58.7	1	49.1	9.7	39.4	1	35.7	11.9	23.8
Arizona...............	55	94.0	34.2	59.8	4	49.9	3.8	46.2	3	44.6	15.9	28.5
Arkansas..............	57	81.5	11.0	70.5	1	27.9	3.5	24.5	..	..	..	..
California............	369	94.4	31.8	62.6	30	35.2	4.5	30.8	10	36.1	8.6	27.6
Colorado..............	66	97.3	33.8	63.5	7	49.1	8.9	40.3	..	..	..	..
Connecticut...........	40	73.3	31.3	41.9	7	18.3	1.2	17.1	1	43.8	5.4	38.3
Delaware..............	7	86.6	31.4	55.2	1	26.4	1.2	25.1	1	32.4	9.6	22.8
District of Columbia..	13	67.0	20.9	46.1	1	53.2	2.9	49.4	..	..	..	..
Florida...............	119	89.8	26.6	63.2	3	35.9	13.6	22.3	3	33.3	3.6	29.7
Georgia...............	77	83.8	19.1	64.7	5	19.6	3.9	15.7	1	32.5	..	32.5
Hawaii................	19	72.9	31.1	41.8	..	..	..	..	1	50.3	13.3	37.0
Idaho.................	40	88.4	23.5	64.9	2	27.3	.4	26.9	1	46.0	..	46.0
Illinois..............	212	80.2	27.1	53.1	19	30.7	1.7	28.9	17	26.3	5.0	21.2
Indiana.....	92	85.0	25.0	60.0	12	27.1	.9	26.1	4	28.3	.5	27.8
Iowa..................	85	80.3	27.4	52.9	9	31.9	1.5	30.4	1	58.6	..	58.6
Kansas................	105	87.7	21.6	66.0	7	39.7	3.1	36.5	1	38.4	..	38.4
Kentucky..............	88	87.2	20.2	67.0	6	21.1	1.7	19.4	7	23.1	..	23.1
Louisiana.............	74	69.8	13.5	56.3	4	53.0	.3	52.8	1	33.1	..	33.1
Maine.................	40	108.3	59.1	49.3	4	22.5	1.8	20.5	1	..	..	..
Maryland..............	37	81.7	25.1	56.7	12	27.3	.9	26.4	4	41.3	9.8	31.5
Massachusetts.........	108	74.6	33.2	41.1	20	24.4	1.2	23.2	2	30.2	4.6	25.5
Michigan..............	145	81.1	22.6	58.6	21	24.4	.8	23.6	6	37.5	4.8	32.7
Minnesota.............	148	89.3	31.6	57.6	9	25.0	.6	24.5	4	30.9	1.8	29.1
Mississippi...........	50	74.7	15.6	59.1	3	11.4	1.1	10.3	1	44.3	3.5	40.8
Missouri............ ..	89	78.3	20.1	58.2	9	25.7	.5	25.3	1	37.0	..	37.0
Montana...............	46	97.4	28.8	68.5	1	22.4	..	22.5	3	11.4	1.1	10.2
Nebraska..............	75	81.0	22.7	58.4	3	38.8	.2	38.6	1	40.9	3.0	37.9
Nevada................	13	80.0	26.7	53.3	..	..	..	..	..	..	..	..
New Hampshire.........	25	94.5	39.1	55.4	2	14.9	.2	14.7	1	60.8	16.6	44.2
New Jersey............	85	83.2	34.5	48.6	1	28.4	1.5	26.9	5	44.0	9.2	34.8
New Mexico............	42	96.3	21.6	74.7	3	28.8	.5	28.4	1	40.1	14.1	26.0
New York..............	266	75.6	22.8	52.8	30	28.4	1.2	27.1	7	39.5	13.5	26.0
North Carolina........	92	74.1	21.5	52.7	7	20.7	.6	20.1	3	26.2	1.4	24.8
North Dakota..........	50	90.2	23.5	66.7	2	40.5	.7	39.9	..	..	..	..
Ohio..................	158	83.1	25.8	57.3	22	22.5	.8	21.7	11	47.9	6.6	41.3
Oklahoma..............	86	96.5	17.5	78.9	2	27.6	..	27.6	1	31.1	..	31.0
Oregon................	55	74.2	21.3	52.9	6	28.5	2.0	26.5	..	..	..	..
Pennsylvania..........	206	69.9	29.1	40.8	33	21.9	1.5	20.3	6	31.5	6.6	25.0
Rhode Island..........	16	71.4	26.7	44.7	3	30.1	1.3	28.7	..	..	..	..
South Carolina........	44	71.8	20.3	51.5	6	15.3	.6	14.6	2	26.6	8.0	18.6
South Dakota..........	48	82.2	25.3	56.7	2	27.0	1.5	25.4	1	32.2	13.1	19.1
Tennessee.............	78	78.9	14.7	64.2	8	32.7	1.4	31.4	4	46.6	2.7	43.8
Texas.................	347	81.7	15.2	66.6	11	22.4	.7	21.7	7	28.1	2.5	25.6
Utah..................	22	85.9	30.0	55.9	1	44.4	1.2	43.2	1	35.0	10.5	24.5
Vermont...............	16	81.7	36.0	45.7	3	18.4	.4	18.1	1	22.9	10.4	12.5
Virginia..............	74	74.5	22.1	52.4	10	31.3	1.5	29.7	3	39.9	1.7	38.2
Washington............	89	89.2	32.8	56.4	7	32.7	1.2	31.6	2	35.4	8.0	27.4
West Virginia.........	43	72.6	19.4	53.2	3	7.4	.1	7.3	2	44.5	8.1	36.4
Wisconsin.............	131	81.0	25.9	55.1	8	26.6	1.9	24.8	13	42.8	5.4	37.4
Wyoming...............	21	106.7	32.3	74.4	2	23.5	2.8	22.8	1	63.2	9.5	53.7

1/ Includes bedside general duty nurses working full time plus one-half of those working part time as of the study week.
2/ Includes practical nurses, attendants, nursing aides, and orderlies, as of the study week.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 100-Bedside nursing personnel per 100 average daily patients in general and allied special hospitals, by type of control and by region and State: 1966

Region and State	Government non-Federal			Voluntary nonprofit			Proprietary			Federal		
	Total	Registered nurse 1/	Other 2/	Total	Registered nurse 1/	Other 2/	Total	Registered nurse 1/	Other 2/	Total	Registered nurse 1/	Other 2/
United States..........	80.4	18.1	62.2	88.2	29.9	58.2	92.5	19.1	73.4	50.1	16.5	33.6
Northeast...........	64.1	15.1	49.0	82.4	34.1	48.3	83.7	18.3	65.5	42.3	13.7	28.6
North Central.......	95.6	26.9	68.8	87.1	26.9	60.2	86.6	17.1	69.4	49.0	17.0	32.0
South...............	88.0	14.3	73.7	92.7	23.9	68.7	89.2	9.6	79.5	51.7	17.6	34.2
West................	85.6	24.2	61.4	106.4	37.7	68.7	112.6	33.3	79.3	62.5	19.6	42.9
Alabama...............	101.4	16.1	85.4	92.2	23.1	69.1	87.2	16.7	70.5	58.6	23.5	35.1
Alaska................	77.7	42.4	35.3	99.0	38.6	60.4	..	..	..	81.3	23.0	58.2
Arizona...............	76.2	18.9	57.3	112.8	43.2	69.6	89.4	53.1	36.3	61.9	21.7	40.2
Arkansas..............	86.3	5.7	80.6	90.3	12.1	78.2	88.7	3.6	85.2	41.3	18.4	22.9
California............	79.5	21.5	58.0	106.9	41.8	65.1	114.1	32.9	81.2	67.8	17.8	50.0
Colorado..............	94.7	34.9	59.9	111.8	37.6	74.2	..	..	..	53.0	21.2	31.8
Connecticut...........	53.0	18.3	34.7	80.0	35.7	44.8	..	..	..	38.2	11.9	26.3
Delaware..............	..	..	..	95.1	34.7	60.4	..	..	..	52.2	17.9	34.4
District of Columbia..	54.0	13.3	40.7	91.6	34.1	57.5	..	..	..	50.6	12.3	38.3
Florida...............	96.1	24.7	71.4	97.4	30.9	66.5	88.7	24.8	63.9	55.2	18.4	36.8
Georgia...............	87.8	15.3	72.4	93.8	27.7	66.1	100.7	14.6	86.1	58.0	18.2	39.8
Hawaii................	67.2	21.7	45.5	86.4	45.1	41.3	146.7	56.4	90.3	55.0	15.7	39.3
Idaho.................	96.7	23.8	72.8	92.1	23.8	68.2	..	..	..	52.0	20.9	31.0
Illinois..............	106.7	28.4	78.2	84.9	30.6	54.3	128.2	36.0	92.3	34.8	8.7	26.1
Indiana...............	89.3	25.2	64.2	88.5	26.1	62.4	72.5	21.6	50.9	39.8	14.4	25.3
Iowa..................	88.8	30.0	58.7	82.7	27.7	55.1	83.7	31.1	52.6	39.9	18.2	21.7
Kansas................	102.0	21.1	80.9	92.5	23.4	69.2	56.7	5.9	50.9	52.2	15.4	36.8
Kentucky..............	88.9	19.1	69.8	95.3	22.3	73.0	79.7	5.0	74.8	47.1	16.2	30.9
Louisiana.............	64.9	6.4	58.4	86.4	20.3	66.1	94.5	13.8	80.6	46.8	15.9	30.9
Maine.................	52.0	8.1	43.8	84.1	34.7	49.5	..	..	..	..	..	..
Maryland..............	73.4	10.3	63.1	93.7	35.1	58.6	..	..	..	63.0	19.3	43.7
Massachusetts.........	56.4	15.6	40.8	83.0	40.7	42.4	69.7	14.6	55.0	44.5	15.1	29.4
Michigan..............	76.6	20.3	56.3	87.1	24.3	62.8	36.6	1.0	35.6	44.4	14.2	30.2
Minnesota.............	94.1	32.5	61.6	92.3	32.7	59.6	..	..	..	42.9	16.6	26.2
Mississippi...........	93.6	15.1	78.5	65.4	15.6	49.7	..	..	..	47.9	16.5	31.4
Missouri..............	116.5	24.2	92.4	83.4	22.6	60.8	71.1	4.1	66.9	36.2	10.2	26.0
Montana...............	95.3	24.1	71.1	105.8	30.8	75.0	..	..	..	56.4	21.2	35.2
Nebraska..............	99.0	23.7	75.2	87.1	23.4	63.7	90.4	10.2	80.1	51.2	20.8	30.4
Nevada................	83.0	26.9	56.1	102.5	31.8	70.7	84.8	32.0	52.8	42.6	16.9	25.6
New Hampshire.........	101.0	41.9	59.1	98.7	40.9	57.8	..	..	..	42.4	16.8	25.5
New Jersey............	60.2	11.7	48.5	86.7	38.5	48.3	..	..	..	95.3	36.9	58.3
New Mexico............	92.6	14.1	78.5	133.3	27.2	106.1	146.2	..	146.2	61.7	20.2	41.8
New York..............	66.2	11.8	54.5	86.1	30.5	55.6	28.5	19.8	8.8	40.0	10.5	29.5
North Carolina........	79.7	22.7	57.0	81.6	22.9	58.8	89.8	33.1	56.7	46.9	15.5	31.3
North Dakota..........	84.1	28.0	56.0	88.8	21.4	67.5	..	..	..	101.5	40.7	60.9
Ohio..................	86.3	23.4	62.8	85.6	27.1	58.4	123.2	17.6	105.6	49.3	17.1	32.2
Oklahoma..............	90.2	9.3	80.9	113.8	20.4	93.3	95.9	8.6	87.3	58.7	23.1	35.7
Oregon................	43.2	7.8	35.4	103.1	33.8	69.4	109.1	37.7	71.3	..	..	..
Pennsylvania..........	65.7	23.4	42.3	74.2	31.4	42.7	66.2	17.9	48.2	33.9	12.3	21.6
Rhode Island..........	43.4	2.1	41.3	85.2	35.9	49.2	109.4	..	109.4	42.0	13.2	28.9
South Carolina........	74.3	18.9	55.4	80.9	23.4	57.6	107.9	17.3	90.7	50.6	16.2	34.5
South Dakota..........	109.9	42.6	67.3	90.6	26.5	64.1	..	..	..	54.5	19.5	35.0
Tennessee.............	90.2	11.1	79.1	89.9	17.5	72.4	77.9	7.4	70.5	46.4	14.6	31.9
Texas.................	88.2	10.3	77.9	92.9	18.2	74.6	92.0	8.1	83.9	51.2	16.8	34.4
Utah..................	106.3	25.0	81.2	91.7	35.6	56.1	..	..	..	54.3	17.2	37.1
Vermont...............	..	..	..	87.7	38.6	49.1	..	..	..	46.2	20.2	26.0
Virginia..............	79.4	14.5	64.9	82.0	26.1	55.9	77.0	22.9	54.1	53.9	16.5	37.4
Washington............	107.6	38.6	69.1	103.5	38.8	64.6	82.5	..	82.5	50.0	17.5	32.5
West Virginia.........	81.1	23.7	57.4	82.9	23.9	59.1	77.5	5.6	71.9	41.7	14.5	27.2
Wisconsin.............	76.1	28.7	47.3	86.6	26.9	59.8	42.9	..	42.9	42.6	14.3	28.3
Wyoming...............	100.6	33.1	67.5	112.5	35.3	77.1	..	..	..	105.1	22.9	82.1

1/ Includes bedside general duty nurses working full time plus one-half of those working part time as of the study week.
2/ Includes practical nurses, attendants, nursing aides, and orderlies, as of the study week.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974

Table 101-Bedside nursing personnel per 100 average daily patients in psychiatric hospitals, by type of control and by region and State: 1966

Region and State	Government non-Federal			Voluntary nonprofit			Proprietary			Federal		
	Total	Registered nurse 1/	Other 2/	Total	Registered nurse 1/	Other 2/	Total	Registered nurse 1/	Other 2/	Total	Registered nurse 1/	Other 2/
United States	25.4	.8	24.7	34.6	5.0	29.6	62.4	9.2	53.2	30.7	4.7	26.0
Northeast	23.6	.6	23.0	37.6	8.8	28.8	66.7	3.1	63.7	29.4	5.1	24.3
North Central	26.9	.7	26.2	61.6	7.1	54.6	60.5	14.8	45.7	32.1	4.5	27.6
South	24.3	.3	23.9	53.1	4.0	49.0	73.8	13.5	60.3	30.1	4.7	25.5
West	35.4	2.9	32.4	59.6	10.5	49.1	59.2	11.8	47.5	31.6	5.7	25.9
Alabama	29.1	..	29.1	..	..	..	88.6	..	88.6	29.8	..	29.8
Alaska	49.1	9.7	39.4	..	..	..	..	..	..	..	..	..
Arizona	46.1	..	46.1	74.1	23.8	50.3	77.9	48.0	30.0	..	..	..
Arkansas	..	..	..	..	..	..	..	..	..	27.9	3.3	24.4
California	34.6	3.1	31.4	58.5	9.0	49.5	53.1	9.8	43.3	34.4	7.7	26.7
Colorado	56.4	10.4	44.0	56.8	13.8	42.9	38.6	2.0	36.5	27.1	2.6	24.6
Connecticut	17.1	1.0	16.1	37.7	4.7	33.1	..	..	..	..	..	..
Delaware	26.4	1.2	25.1	..	..	..	..	..	..	..	..	..
District of Columbia	..	..	..	..	..	..	..	..	..	53.2	3.9	49.4
Florida	..	..	..	96.7	6.0	90.7	..	..	..	..	..	..
Georgia	9.5	1.1	8.4	..	..	..	55.3	7.5	41.9	28.5	6.8	21.7
Hawaii	..	..	..	..	..	..	..	..	..	..	..	..
Idaho	27.3	.4	26.9	..	..	..	..	..	..	..	..	..
Illinois	31.3	1.4	29.9	70.5	12.3	58.2	45.8	3.6	42.1	27.1	2.9	24.3
Indiana	25.5	.2	25.3	84.5	10.6	74.0	97.6	36.6	61.0	28.9	3.4	25.5
Iowa	32.7	.8	31.9	62.8	7.3	55.5	..	..	..	27.8	3.2	24.7
Kansas	37.2	1.3	35.8	63.7	14.9	48.7	..	..	..	45.1	7.9	37.[illegible]
Kentucky	19.6	.2	19.4	46.3	7.4	38.9	..	..	..	21.0	3.8	17.3
Louisiana	53.2	..	53.2	51.4	3.6	47.9	..	..	..	..	..	..
Maine	20.2	..	20.2	..	..	..	..	..	..	33.7	10.9	22.8
Maryland	25.0	.3	24.7	47.2	2.3	44.9	99.4	8.6	90.8	33.0	4.6	28.3
Massachusetts	22.6	.1	22.5	63.0	25.5	37.5	..	..	..	31.6	5.4	26.2
Michigan	23.3	.5	22.8	49.2	5.1	44.2	67.2	6.3	60.8	26.1	3.0	23.[illegible]
Minnesota	25.0	.6	24.5	..	..	..	..	..	..	..	..	..
Mississippi	6.8	.3	6.5	..	..	..	..	..	..	30.6	4.4	26.1
Missouri	24.6	..	24.6	48.1	5.0	43.2	..	..	..	35.2	5.8	29.4
Montana	22.4	..	22.5	..	..	..	..	..	..	..	..	..
Nebraska	38.8	.2	38.6	..	..	..	..	..	..	..	..	..
Nevada	..	..	..	..	..	..	..	..	..	..	..	..
New Hampshire	14.9	.2	14.6	..	..	..	..	..	..	..	..	..
New Jersey	28.6	1.1	27.6	48.5	6.3	42.2	47.0	8.9	38.2	23.4	3.5	19.9
New Mexico	26.5	.5	26.1	53.5	..	53.5	65.5	..	65.5	..	..	..
New York	28.1	.8	27.3	55.6	14.7	40.9	79.4	2.8	76.7	26.0	3.1	22.9
North Carolina	18.6	..	18.5	45.2	2.1	43.1	..	..	..	42.3	7.0	35.3
North Dakota	40.5	.7	39.9	..	..	..	..	..	..	..	..	..
Ohio	20.9	.3	20.7	42.9	.6	42.2	46.7	5.2	41.5	32.1	4.9	27.1
Oklahoma	26.5	..	26.5	60.9	..	60.9	..	..	..	..	..	..
Oregon	25.0	..	25.0	51.2	..	51.2	57.4	17.8	39.6	30.1	5.2	24.9
Pennsylvania	21.4	.8	20.7	17.2	3.1	14.1	41.6	..	41.6	31.3	5.4	25.9
Rhode Island	28.8	1.0	27.8	102.3	21.3	81.0	..	..	..	..	..	..
South Carolina	15.1	.6	14.5	..	..	..	35.8	..	35.8	..	..	..
South Dakota	23.2	..	23.2	..	..	..	..	..	..	42.1	7.4	34.8
Tennessee	34.3	.9	33.4	..	..	..	46.8	..	46.8	25.2	3.5	21.8
Texas	21.5	..	21.5	86.6	14.9	71.6	85.5	27.0	58.5	25.5	3.4	22.1
Utah	44.4	1.2	43.2	..	..	..	..	..	..	..	..	..
Vermont	15.9	.3	15.5	30.7	.5	30.2	..	..	..	..	..	..
Virginia	30.8	.3	30.5	2.4	..	2.4	90.3	28.1	62.2	28.7	4.9	23.7
Washington	32.6	.6	32.1	..	..	..	77.5	8.9	68.6	28.7	3.3	25.4
West Virginia	7.4	..	7.4	..	..	..	..	..	..	..	..	..
Wisconsin	24.4	1.5	22.9	91.3	..	91.2	60.2	60.2	..	29.9	3.6	26.2
Wyoming	19.5	..	19.5	..	..	..	..	..	..	..	..	..

1/ Includes bedside general duty nurses working full time plus one-half of those working part time as of the study week.
2/ Includes practical nurses, attendants, nursing aides, and orderlies, as of the study week.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974

Table 102-Bedside nursing personnel per 100 average daily patients in tuberculosis hospitals, by type of control and by region: 1966

Region and State	Government non-Federal			Voluntary nonprofit			Proprietary			Federal		
	Total	Registered nurse 1/	Other 2/	Total	Registered nurse 1/	Other 2/	Total	Registered nurse 1/	Other 2/	Total	Registered nurse 1/	Other 2/
United States..........	34.3	4.5	29.8	35.7	6.6	29.1	42.6	11.6	31.0	45.5	17.7	27.8
Northeast............	35.9	8.3	27.7	..	..	..	..	..	..	93.7	35.6	58.1
North Central.......	36.9	4.7	32.2	31.0	15.4	15.6	..	..	..	32.2	13.1	19.1
South................	31.7	2.7	28.9	14.9	..	15.0	..	..	..	..	..	..
West.................	41.0	7.8	33.2	41.8	9.4	32.5	42.6	11.6	31.0	116.4	43.2	73.2
Alabama................	21.0	..	21.0	14.9	..	15.0	..	..	..	..	..	..
Alaska.................	..	..	..	35.7	11.9	23.8	..	..	..	..	..	..
Arizona................	46.3	15.2	31.1	..	..	..	42.6	11.6	31.0	44.2	17.5	26.7
Arkansas...............	..	..	..	..	..	..	..	..	..	..	..	..
California.............	37.5	7.0	30.5	41.0	7.2	33.9	..	..	..	32.1	11.6	20.[illegible]
Colorado...............	..	..	..	..	..	..	..	..	..	..	..	..
Connecticut............	43.8	5.2	38.3	..	..	..	..	..	..	..	..	..
Delaware...............	32.4	9.6	22.8	..	..	..	..	..	..	..	..	..
District of Columbia..	..	..	..	..	..	..	..	..	..	..	..	..
Florida................	33.3	3.6	29.7	..	..	..	..	..	..	..	..	..
Georgia................	32.5	..	32.5	..	..	..	..	..	..	..	..	..
Hawaii.................	..	..	..	53.0	13.3	37.0	..	..	..	..	..	..
Idaho..................	46.0	..	46.0	..	..	..	..	..	..	..	..	..
Illinois...............	26.2	5.1	21.1	27.3	4.1	23.3	..	..	..	..	..	..
Indiana................	28.3	.5	27.8	..	..	..	..	..	..	..	..	..
Iowa...................	58.6	..	58.6	..	..	..	..	..	..	..	..	..
Kansas.................	38.4	..	38.4	..	..	..	..	..	..	..	..	..
Kentucky...............	23.1	..	23.1	..	..	..	..	..	..	..	..	..
Louisiana..............	33.1	..	33.1	..	..	..	..	..	..	..	..	..
Maine..................	..	..	..	..	..	..	..	..	..	..	..	..
Maryland...............	32.7	5.9	26.8	..	..	..	..	..	..	..	..	..
Massachusetts..........	30.2	4.6	25.5	..	..	..	..	..	..	..	..	..
Michigan...............	37.5	4.8	32.7	..	..	..	..	..	..	..	..	..
Minnesota..............	30.9	1.8	29.1	..	..	..	..	..	..	..	..	..
Mississippi............	44.2	3.5	40.8	..	..	..	..	..	..	..	..	..
Missouri...............	37.0	..	37.0	..	..	..	..	..	..	..	..	..
Montana................	..	..	..	..	..	..	..	..	..	..	..	..
Nebraska...............	40.9	3.0	38.0	..	..	..	..	..	..	..	..	..
Nevada.................	..	..	..	..	..	..	..	..	..	..	..	..
New Hampshire..........	60.8	16.5	44.2	..	..	..	..	..	..	..	..	..
New Jersey.............	40.0	9.7	34.8	..	..	..	..	..	..	..	..	..
New Mexico.............	..	..	..	..	..	..	..	..	..	40.1	14.1	26.0
New York...............	33.4	11.3	22.2	..	..	..	..	..	..	54.6	19.0	35.6
North Carolina.........	26.2	1.4	24.8	..	..	..	..	..	..	..	..	..
North Dakota...........	..	..	..	..	..	..	..	..	..	..	..	..
Ohio...................	48.2	6.8	41.4	41.3	2.1	39.3	..	..	..	..	..	..
Oklahoma...............	31.1	..	31.1	..	..	..	..	..	..	..	..	..
Oregon.................	..	..	..	..	..	..	..	..	..	..	..	..
Pennsylvania...........	29.3	3.7	25.7	..	..	..	..	..	..	39.1	16.6	22.5
Rhode Island...........	..	..	..	..	..	..	..	..	..	..	..	..
South Carolina.........	26.7	8.0	18.6	..	..	..	..	..	..	..	..	..
South Dakota...........	..	..	..	..	..	..	..	..	..	32.2	13.1	19.1
Tennessee..............	46.4	2.6	43.8	..	..	..	..	..	..	..	..	..
Texas..................	28.1	2.5	25.6	..	..	..	..	..	..	..	..	..
Utah...................	35.0	10.5	24.5	..	..	..	..	..	..	..	..	..
Vermont................	22.9	10.4	12.4	..	..	..	..	..	..	..	..	..
Virginia...............	39.9	1.7	38.2	..	..	..	..	..	..	..	..	..
Washington.............	35.4	8.1	27.4	..	..	..	..	..	..	..	..	..
West Virginia..........	44.5	8.1	36.4	..	..	.	..	..	..	..	..	..
Wisconsin..............	44.5	6.0	38.5	..	..		..	..	..	..	..	..
Wyoming................	..	..	..	..	..	.	..	..	..	..	..	..

1/ Includes bedside general duty nurses working full time plus one-half of those working part time as of the study week.
2/ Includes practical nurses, attendants, nursing aides, and orderlies, as of the study week.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 103-Bedside nursing personnel[1] per 100 average daily patients in all AHA hospitals, by type of hospital, and by census region: 1972

Census region and type of hospital	Number of hospitals	Average daily patient census	Nursing personnel per 100 patients			
			Total	Registered nurses	Licensed practical nurses	Aides, orderlies, attendants
United States	7,035	1,172,104	74.8	21.5	16.4	36.9
Federal	400	114,757	54.9	17.9	7.9	29.1
Non-Federal	6,635	1,057,347	77.0	21.9	17.3	37.8
Short term general and allied special	5,832	671,280	99.6	33.5	24.6	41.6
Psychiatric	500	329,046	36.4	1.6	4.1	30.7
Tuberculosis	75	8,214	47.4	4.7	12.8	29.9
Other long term	228	48,807	49.9	5.2	8.6	36.1
Northeast	1,274	347,467	67.4	22.0	13.0	32.4
Federal	56	24,796	48.0	15.1	5.0	27.9
Non-Federal	1,218	322,671	68.9	22.6	13.6	32.7
Short term general and allied special	967	174,845	94.7	39.7	21.6	33.4
Psychiatric	148	123,249	36.0	1.6	2.8	31.6
Tuberculosis	9	823	54.8	7.3	17.4	30.1
Other long term	94	23,754	52.4	6.2	10.7	35.5
North Central	1,991	319,454	77.8	22.6	15.3	40.0
Federal	79	25,859	50.6	15.4	6.1	29.2
Non-Federal	1,912	293,595	80.2	23.2	16.1	40.9
Short term general and allied special	1,697	206,963	96.8	32.1	21.4	43.3
Psychiatric	141	72,604	39.8	1.7	2.6	35.5
Tuberculosis	24	1,875	46.2	6.4	10.1	29.7
Other long term	50	12,153	44.9	2.9	6.5	35.5
South	2,426	360,901	74.6	16.0	18.7	39.8
Federal	152	44,886	55.5	18.0	8.8	28.7
Non-Federal	2,274	316,015	77.3	15.7	20.1	41.4
Short term general and allied special	2,049	200,102	101.9	24.2	30.0	47.7
Psychiatric	138	104,431	33.1	.8	2.5	29.8
Tuberculosis	36	4,774	47.1	2.8	12.6	31.7
Other long term	51	6,708	52.6	3.8	7.9	40.9
West	1,344	144,282	89.3	31.9	22.0	35.4
Federal	113	19,216	61.4	24.7	11.9	31.8
Non-Federal	1,231	125,066	92.5	33.0	23.6	36.0
Short term general and allied special	1,119	89,370	111.9	44.0	26.0	41.8
Psychiatric	73	28,762	43.0	4.2	20.1	18.6
Tuberculosis	6	742	45.0	10.0	15.2	19.8
Other long term	33	6,192	49.5	9.2	5.3	35.0
Territories	73	9,068	74.5	23.0	32.9	18.7
Federal	8	1,281	68.1	26.8	5.0	36.3
Non-Federal	65	7,787	75.6	22.4	37.4	15.8
Short term general and allied special	60	6,023	88.4	26.5	45.7	16.3
Psychiatric	2	1,155	18.7	4.7	4.1	10.0
Tuberculosis	3	609	56.6	15.3	19.0	22.
Other long term	--	--	--	--	--	--

[1] Includes bedside general duty staff working full time plus one-half of those working part time as of the study week.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 104-Bedside nursing personnel[1] per 100 average daily patients in AHA Federal and non-Federal hospitals, by State: 1972

State	Federal hospitals					Non-Federal hospitals				
		Nursing personnel per 100 patients					Nursing personnel per 100 patients			
	No. of hospitals	Total	Regis-tered nurses	Licensed practical nurses	Aides, orderlies, attendants	No. of hospitals	Total	Regis-tered nurses	Licensed practical nurses	Aides, orderlies, attendants
United States.........	400	54.9	17.9	7.9	29.1	6635	77.0	21.9	17.3	37.8
Alabama...............	8	55.8	15.6	7.4	32.8	140	73.1	12.2	21.2	39.6
Alaska................	10	77.3	33.6	16.5	27.3	15	107.9	42.9	28.8	36.1
Arizona...............	18	71.5	27.2	17.3	27.0	64	105.9	37.3	21.2	47.4
Arkansas..............	4	45.9	14.0	7.5	24.4	90	102.1	10.6	41.1	50.4
California............	35	70.5	25.2	9.6	35.7	596	88.2	31.3	22.9	33.9
Colorado..............	6	60.9	22.4	14.7	23.9	88	97.3	40.2	17.5	39.5
Connecticut...........	5	60.9	26.6	7.0	27.2	62	77.1	25.5	14.7	36.9
Delaware..............	2	67.0	32.1	5.3	29.6	12	60.5	15.3	11.4	33.9
District of Columbia..	4	32.2	8.1	11.4	12.8	17	91.7	35.5	21.5	34.7
Florida...............	15	75.9	26.3	11.8	37.8	191	79.7	21.9	16.7	41.1
Georgia...............	11	56.2	18.1	7.4	30.8	160	76.6	13.8	17.7	45.1
Hawaii................	1	78.8	24.5	20.1	34.2	30	87.6	35.6	31.4	20.6
Idaho.................	2	80.3	27.0	14.4	38.9	50	102.8	31.5	43.8	27.4
Illinois..............	10	49.1	13.8	5.8	29.6	289	80.1	27.5	13.8	38.9
Indiana...............	6	46.5	13.3	4.5	28.8	129	74.0	17.8	11.0	45.2
Iowa..................	3	54.8	16.5	7.0	31.3	144	90.5	28.5	17.2	44.8
Kansas................	8	61.3	17.2	7.4	36.7	151	89.4	20.6	12.6	56.2
Kentucky..............	6	55.8	19.5	6.2	30.1	125	85.8	18.4	20.2	47.2
Louisiana.............	8	51.7	18.2	9.6	23.9	143	78.4	12.4	17.9	48.1
Maine.................	2	39.9	14.1	2.9	23.0	50	69.5	20.0	15.0	34.5
Maryland..............	11	68.4	24.1	15.7	28.7	71	67.3	17.4	11.8	38.1
Massachusetts.........	9	50.4	13.5	3.1	33.9	197	77.3	28.0	18.5	30.8
Michigan..............	9	44.5	14.6	3.9	26.1	237	76.6	20.4	18.6	37.6
Minnesota.............	5	39.4	13.1	4.6	21.7	189	85.5	30.5	19.1	35.9
Mississippi...........	5	39.0	12.1	2.9	24.0	104	71.8	9.3	20.7	41.9
Missouri..............	8	52.5	17.6	8.5	26.3	144	80.4	16.9	15.2	48.4
Montana...............	6	59.1	24.5	10.9	23.7	60	95.2	30.9	19.0	45.3
Nebraska..............	5	60.4	25.4	9.0	26.0	101	105.5	29.6	18.6	57.2
Nevada................	4	59.4	25.4	10.0	24.0	19	105.4	29.3	30.6	45.5
New Hampshire.........	2	50.5	17.8	6.4	26.3	33	62.1	22.7	13.2	26.1
New Jersey............	4	46.7	13.4	3.3	30.1	132	68.6	24.7	14.5	29.4
New Mexico............	12	75.9	27.1	16.7	32.0	47	113.4	28.9	27.1	57.4
New York..............	17	52.7	16.3	6.4	30.0	401	66.7	19.4	11.1	36.2
North Carolina........	9	53.2	17.3	7.1	28.8	153	75.1	17.7	17.5	39.9
North Dakota..........	5	82.2	31.9	7.5	42.9	58	94.9	23.5	19.5	51.9
Ohio..................	7	49.9	13.0	6.6	30.3	234	72.7	21.5	18.1	33.1
Oklahoma..............	12	76.4	32.0	14.6	29.8	131	88.4	11.5	19.0	57.9
Oregon................	2	55.7	20.6	8.7	26.4	83	91.5	31.6	17.3	42.6
Pennsylvania..........	13	40.1	12.8	5.0	22.3	304	67.0	24.1	14.4	28.5
Rhode Island..........	3	46.0	23.7	5.2	17.1	19	69.0	22.5	17.0	29.6
South Carolina........	7	55.8	20.3	10.5	25.1	78	60.9	12.9	14.7	33.3
South Dakota..........	10	55.4	19.2	6.3	29.9	54	83.5	21.9	14.5	47.1
Tennessee.............	5	55.2	17.1	4.5	33.6	151	75.3	11.8	21.7	41.8
Texas.................	28	60.4	19.5	8.3	32.6	515	83.9	15.1	30.3	38.6
Utah..................	3	77.6	25.7	14.0	37.8	34	99.2	36.0	25.5	37.7
Vermont...............	1	54.1	26.9	5.9	21.3	20	69.0	22.0	16.3	30.6
Virginia..............	11	62.8	19.1	8.9	34.8	115	67.8	17.0	14.8	36.1
Washington............	11	63.4	21.7	14.7	26.9	117	97.0	38.3	31.4	27.4
West Virginia.........	6	51.1	16.4	8.1	26.6	78	70.4	14.8	16.3	39.2
Wisconsin.............	3	50.4	15.9	4.7	29.7	182	88.4	26.7	16.7	45.0
Wyoming...............	3	49.3	18.2	2.1	29.1	28	93.0	29.0	14.6	49.4
American Samoa........	..	..	..	..	..	1	112.8	..	98.5	14.3
Canal Zone............	4	91.3	30.0	1.7	59.6	..	..	..	..	..
Guam..................	1	34.5	25.1	7.2	2.2	1	103.7	42.2	7.2	54.4
Puerto Rico...........	2	57.3	24.4	6.8	26.2	60	81.0	25.1	41.3	14.6
Pacific Islands.......	1	153.1	58.9	11.8	82.4	..	..	..	..	..
Virgin Islands........	..	..	..	..	..	3	106.3	27.8	29.5	49.0

[1] Includes bedside general duty staff working full time plus one-half of those working part time as of the study week.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

Table 105-Bedside nursing personnel[1] per 100 average daily patients in AHA non-Federal hospitals--short-term general and special, and psychiatric, by State: 1972

	General and allied special hospitals					Psychiatric hospitals				
		Nursing personnel per 100 patients					Nursing personnel per 100 patients			
	No. of hospitals	Total	Regis-tered nurses	Licensed practical nurses	Aides, orderlies, attendants	No. of hospitals	Total	Regis-tered nurses	Licensed practical nurses	Aides, orderlies, attendants
United States..........	5,832	99.6	33.5	24.6	41.6	500	36.4	1.6	4.1	30.7
Alabama...............	128	102.1	20.7	35.4	45.9	5	31.7	.1	.6	30.9
Alaska................	14	127.4	56.1	28.4	42.9	1	58.1	9.5	29.7	18.9
Arizona...............	60	117.2	43.2	24.7	49.3	3	47.2	5.6	3.4	38.2
Arkansas..............	89	104.9	11.3	40.2	53.4	1	61.5	.4	55.2	5.9
California............	536	111.5	44.4	24.2	42.9	43	40.3	4.2	24.8	11.3
Colorado..............	78	108.6	47.3	21.3	40.0	5	48.5	9.3	1.1	38.1
Connecticut...........	41	100.8	41.5	22.9	36.4	12	42.4	3.9	1.7	36.8
Delaware..............	7	106.4	39.8	26.2	40.3	2	33.0	.6	2.6	29.8
District of Columbia..	14	103.7	42.5	25.3	35.9	1	76.2	27.0	2.3	46.9
Florida...............	170	102.9	33.2	24.8	44.9	18	36.5	.8	1.3	34.4
Georgia...............	146	110.6	24.5	29.0	57.1	12	36.7	1.3	3.9	31.5
Hawaii................	22	94.6	43.1	31.1	20.4	2	84.2	17.3	43.6	23.3
Idaho.................	48	111.5	36.0	48.6	26.9	2	41.3	..	10.4	30.9
Illinois..............	250	95.1	36.7	17.5	40.9	24	39.2	2.7	2.2	34.3
Indiana...............	112	96.7	28.4	17.5	50.8	12	35.5	.2	.1	35.2
Iowa..................	136	95.3	32.9	19.2	43.2	6	60.8	1.5	4.9	54.4
Kansas................	142	100.1	25.8	16.1	58.1	6	57.6	3.7	.2	53.7
Kentucky..............	109	99.9	23.4	24.9	51.6	7	41.7	3.5	5.3	33.0
Louisiana.............	133	106.6	19.7	27.7	59.2	7	33.9	.9	2.4	30.6
Maine.................	45	97.8	35.2	25.5	37.0	4	36.5	2.2	2.9	31.4
Maryland..............	47	106.3	38.8	19.3	48.1	15	35.3	.7	5.3	29.3
Massachusetts.........	138	104.1	50.5	23.7	30.0	28	42.2	2.3	11.4	28.5
Michigan..............	202	95.7	29.7	26.0	40.0	24	38.5	1.6	3.4	33.5
Minnesota.............	176	103.4	40.2	25.2	38.1	9	31.3	1.4	.9	29.0
Mississippi...........	100	103.4	15.3	33.8	54.3	2	24.5	.3	1.1	23.1
Missouri..............	129	92.2	23.1	20.3	48.8	10	52.4	1.4	1.2	49.8
Montana...............	59	102.6	34.0	20.2	48.4	..	..	..	..	..
Nebraska..............	97	111.1	34.0	21.5	55.6	4	77.2	7.6	4.5	65.2
Nevada................	18	115.8	34.2	34.7	46.9	1	42.8	..	6.0	36.8
New Hampshire.........	31	109.2	47.3	27.1	34.8	2	18.9	.2	.5	18.1
New Jersey............	107	91.4	39.8	21.1	30.5	12	32.9	1.9	4.7	26.4
New Mexico............	41	127.4	37.2	33.3	56.9	3	70.9	3.1	7.8	60.0
New York..............	334	94.0	36.7	20.0	37.3	46	36.6	1.1	1.0	34.5
North Carolina........	135	97.0	26.7	25.5	44.7	8	31.1	.3	.6	30.2
North Dakota..........	56	114.6	32.9	27.1	54.7	1	47.4	1.1	1.1	[illegible]
Ohio..................	195	93.6	32.5	25.3	35.8	24	30.8	.6	3.6	26.6
Oklahoma..............	121	112.5	17.4	27.4	67.2	5	41.3	.3	1.8	39.2
Oregon................	78	113.0	43.0	23.2	46.9	4	34.2	1.3	1.9	31.0
Pennsylvania..........	240	88.8	38.4	21.3	29.1	39	33.4	2.2	2.7	28.4
Rhode Island..........	16	105.5	47.1	33.2	25.2	2	31.9	2.6	1.2	28.2
South Carolina........	70	98.1	23.7	26.7	47.7	5	20.1	.8	1.3	18.0
South Dakota..........	52	108.9	33.8	22.3	52.8	1	37.3	..	.5	36.8
Tennessee.............	136	91.6	17.1	30.6	43.9	8	38.9	.5	2.1	36.3
Texas.................	477	130.1	20.1	40.6	42.5	22	28.4	1.0	1.8	25.7
Utah..................	31	107.8	43.2	30.5	34.0	1	56.1	..	..	56.1
Vermont...............	17	105.2	47.5	33.4	24.3	3	38.3	.4	1.9	36.0
Virginia..............	98	95.5	30.7	25.0	39.8	14	34.9	.8	2.7	31.4
Washington............	107	112.8	49.7	36.2	26.8	7	48.5	2.4	17.1	29.0
West Virginia.........	69	99.5	24.8	26.6	48.0	6	23.0	.4	.4	22.2
Wisconsin.............	150	97.4	32.4	19.4	45.6	20	54.6	4.7	6.4	43.5
Wyoming...............	27	118.0	41.4	20.2	56.3	1	34.7	..	1.7	33.0
American Samoa........	1	112.8	..	98.5	14.3	2	21.9	5.5	4.7	11.7
Guam..................	1	103.7	42.2	7.2	54.4	..	..	..	..	..
Puerto Rico...........	55	87.7	27.5	46.2	14.0		..	..	..	..
Virgin Islands........	3	106.3	27.8	29.5	49.0	..	..	..	..	..

[1] Includes bedside general duty staff working full time plus one-half of those working part time as of the study week.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

Table 106--Bedside nursing personnel[1] per 100 average daily patients in AHA non-Federal hospitals--long-term general and special, and tuberculosis, by State: 1972

	Long-term general and special hospitals					Tuberculosis hospitals				
		Nursing personnel per 100 patients					Nursing personnel per 100 patients			
	No. of hospitals	Total	Regis-tered nurses	Licensed practical nurses	Aides, orderlies, attendants	No. of hospitals	Total	Regis-tered nurses	Licensed practical nurses	Aides, orderlies, attendants
United States..........	226	49.9	5.2	8.6	36.1	75	47.4	4.7	12.8	29.9
Alabama................	..	..	..	..	..	7	36.6	1.4	8.6	26.5
Alaska.................	..	..	..	..	..	..	..	..	..	..
Arizona................	..	..	..	..	..	1	47.9	16.2	..	31.8
Arkansas...............	..	..	..	..	..	..	..	..	..	..
California.............	15	45.8	8.3	4.2	33.4	1	46.6	7.3	3.7	35.7
Colorado...............	5	72.5	28.1	10.2	34.2	..	..	..	..	..
Connecticut............	9	59.7	9.7	10.8	39.2	..	..	..	..	..
Delaware...............	2	33.1	..	1.4	31.7	1	36.6	6.5	12.4	17.7
District of Columbia..	2	31.4	.3	4.1	27.0	..	..	..	..	..
Florida................	..	..	..	..	..	2	38.1	1.9	9.6	26.6
Georgia................	1	104.9	14.3	7.9	82.6	1	43.0	..	31.4	11.6
Hawaii.................	5	56.2	11.2	18.6	26.4	1	67.1	18.5	36.4	12.1
Idaho..................	..	..	..	..	..	..	..	..	..	..
Illinois...............	9	47.1	3.3	10.8	33.0	6	35.5	8.5	7.6	19.4
Indiana................	3	48.7	.6	1.6	46.5	2	42.0	2.4	4.4	35.2
Iowa...................	1	110.8	36.2	12.1	62.4	1	76.7	17.8	8.2	50.7
Kansas.................	2	40.1	.4	2.2	37.4	1	38.4	7.7	3.1	27.7
Kentucky...............	3	79.3	11.4	8.8	59.0	6	56.5	3.9	15.7	36.9
Louisiana..............	2	59.2	8.1	6.5	44.6	1	47.8	..	15.6	32.2
Maine..................	1	42.1	4.5	3.9	33.8	..	..	..	..	..
Maryland...............	8	53.9	4.0	9.5	40.3	1	35.5	.6	12.8	22.1
Massachusetts..........	29	58.5	4.9	15.2	38.4	2	77.9	..	24.2	53.7
Michigan...............	10	40.0	3.5	5.7	30.8	1	26.9	5.8	15.4	5.8
Minnesota..............	2	118.0	30.9	4.2	82.8	2	49.4	7.1	7.1	35.3
Mississippi............	..	..	..	..	..	1	61.1	1.3	18.2	41.6
Missouri...............	4	45.0	2.4	2.7	39.9	1	56.7	..	20.8	36.0
Montana................	..	..	..	..	..	1	22.9	..	7.8	15.1
Nebraska...............	..	..	..	..	..	..	..	..	..	..
Nevada.................	..	..	..	..	..	..	..	..	..	..
New Hampshire..........	..	..	..	..	..	..	..	..	..	..
New Jersey.	12	56.4	9.8	7.7	38.9	1	53.0	13.8	6.2	33.0
New Mexico..	3	69.6	3.8	9.5	56.4	..	..	..	..	..
New York...............	18	65.3	8.7	13.3	43.2	3	59.3	10.9	24.9	23.4
North Carolina.........	6	81.6	7.0	21.6	53.0	4	39.0	3.4	12.2	23.4
North Dakota...........	1	47.6	.4	1.3	45.9	..	..	..	..	..
Ohio...................	11	44.3	2.6	8.2	3.5	4	62.5	9.3	9.0	44.2
Oklahoma...............	4	52.2	1.0	4.4	46.9	1	73.6	..	17.8	55.8
Oregon.................	1	68.0	22.7	..	45.3	..	..	..	..	..
Pennsylvania...........	22	35.7	3.4	7.2	25.0	3	39.8	5.7	15.1	19.0
Rhode Island...........	3	44.4	.4	5.3	38.8	..	..	..	..	..
South Carolina.........	2	10.6	1.2	.4	9.0	1	49.2	7.7	15.5	26.0
South Dakota...........	1	42.9	5.7	..	37.2	..	..	..	..	..
Tennessee..............	3	51.0	.5	6.2	44.3	4	68.0	6.6	18.2	43.2
Texas..................	13	75.8	7.4	12.4	55.9	3	48.4	1.9	5.3	41.1
Utah...................	2	71.8	10.0	8.3	53.5	..	..	..	..	..
Vermont................	..	..	..	..	..	..	..	..	..	..
Virginia...............	1	69.2	17.7	15.0	36.5	2	48.5	4.2	6.5	37.8
Washington.............	1	64.9	16.6	..	48.3	2	47.0	11.4	11.4	24.2
West Virginia..........	2	71.0	2.8	8.7	59.5	1	52.7	..	11.8	40.8
Wisconsin..............	6	47.1	3.2	5.2	38.7	6	44.2	6.0	7.5	30.7
Wyoming................	..	..	..	..	..	..	..	..	..	..
Puerto Rico............	..	..	..	..	..	3	53.7	14.6	18.0	21.2

[1] Includes bedside general duty staff working full time plus one-half of those working part time as of the study week.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43. Washington, U.S. Government Printing Office, 1974.

Table 107-Supervisory-staff level nursing personnel ratios in hospitals, by type and control of hospital, by region and State: 1959

Region and State	General and allied special				Psychiatric			Tuberculosis		
	Total	Federal 3/	Other government	Non government	Federal 3/	Other government	Non government	Federal 3/	Other government	Non-government
United States	13	12	14	16	7	6	18	13	17	24
Northeast	14	13	12	17	5	9	20	14	16	28
North Central	13	11	14	15	7	5	15	15	18	38
South	13	13	14	15	6	4	18	12	16	11
West	13	12	15	16	8	5	20	11	21	25
Alabama	9	9	12	12	3	4/	5	--	6	9
Alaska	18	10	15	40	--	--	--	--	--	--
Arizona	11	11	9	12	--	1	47	10	62	29
Arkansas	15	13	14	19	6	2	--	--	47	--
California	13	14	16	15	8	5	17	11	24	38
Colorado	12	10	14	14	7	4	30	--	--	25
Connecticut	15	13	20	19	--	7	21	--	20	--
Delaware	13	13	14	16	--	3	--	--	26	--
District of Columbia	13	10	9	12	--	--	17	--	--	--
Florida	15	16	13	18	--	--	12	--	15	--
Georgia	11	14	11	14	11	4	9	--	--	--
Hawaii	14	9	13	17	--	15	--	--	62	18
Idaho	21	14	21	27	--	3	--	--	45	--
Illinois	12	9	15	14	5	5	9	--	29	46
Indiana	12	10	16	13	[illegible]	[illegible]	16	--	18	--
Iowa	15	12	14	18	4	4	33	--	10	--
Kansas	14	14	18	18	24	6	12	--	3	--
Kentucky	12	11	16	14	9	3	29	18	17	--
Louisiana	12	9	13	13	--	1	41	--	27	--
Maine	20	22	31	25	17	7	33	--	18	--
Maryland	13	17	13	16	5	3	25	13	13	8
Massachusetts	17	14	16	21	12	13	20	13	25	51
Michigan	11	12	12	14	9	4	14	--	14	--
Minnesota	14	11	17	15	5	7	46	--	22	--
Mississippi	15	20	20	18	6	2	9	--	12	--
Missouri	11	8	13	13	6	2	15	[illegible]	15	--
Montana	18	13	11	21	--	8	--	--	9	--
Nebraska	15	12	28	16	--	8	--	--	3	--
Nevada	10	15	11	7	--	--	--	--	--	--
New Hampshire	21	17	16	26	--	15	--	--	10	--
New Jersey	12	8	11	6	7	6	20	--	9	45
New Mexico	17	13	21	14	--	1	41	23	2	17
New York	13	14	10	17	6	8	10	15	17	26
North Carolina	16	10	17	18	6	11	13	9	17	--
North Dakota	15	13	17	17	--	2	--	--	--	--
Ohio	11	12	15	13	4	5	6	16	15	--
Oklahoma	14	14	16	16	--	4	4	16	8	--
Oregon	15	9	17	19	7	5	3	--	24	--
Pennsylvania	14	14	15	15	8	9	29	13	13	19
Rhode Island	13	11	11	16	--	9	25	--	10	--
South Carolina	15	20	15	15	--	10	--	--	16	40
South Dakota	16	13	18	21	--	2	--	56	--	--
Tennessee	12	13	11	15	1	2	8	--	16	6
Texas	13	10	16	15	7	5	18	20	11	--
Utah	11	9	11	13	--	1	--	--	33	--
Vermont	17	--	--	21	--	6	8	--	10	--
Virginia	14	14	17	18	7	4	18	--	13	--
Washington	14	11	15	18	7	5	36	--	12	--
West Virginia	14	11	14	16	--	3	24	--	9	--
Wisconsin	15	12	12	17	5	6	13	11	33	25
Wyoming	10	16	12	8	13	1	--	--	17	--

1/ Includes administrative nursing personnel and patient care unit supervisors, assistant supervisors, head nurses, and assistant head nurses.
2/ Includes full-time equivalent staff nurses, practical nurses, attendants, nursing aides, orderlies and other auxilliary nursieng personnel, i.e., those working full time, plus one-half of those working part time.
3/ Does not include hospitals operated by the Bureau of Indian Affairs which are included with "other government" hospitals.
4/ Less than 0.5

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 108-Supervisory nursing personnel[1] per 100 bedside nursing personnel [2] in hospitals by type of hospital, region and State: 1966

Region and State	General	Psychiatric	Tuberculosis
United States	12.7	7.3	14.4
Northeast	14.2	8.8	17.9
North Central	11.7	6.0	17.7
South	12.5	6.1	15.2
West	13.8	7.8	14.0
Alabama	10.5	4.5	16.5
Alaska	14.0	18.8	16.7
Arizona	14.0	5.5	5.2
Arkansas	14.0	5.4	..
California	14.1	7.7	12.8
Colorado	10.4	10.1	..
Connecticut	15.6	11.6	22.7
Delaware	10.2	6.6	15.9
District of Columbia	10.9	10.2	..
Florida	13.4	12.6	19.7
Georgia	11.6	9.9	13.7
Hawaii	11.0	..	9.0
Idaho	21.1	8.0	55.0
Illinois	11.4	6.4	17.3
Indiana	12.6	7.3	12.1
Iowa	11.9	6.6	12.5
Kansas	12.9	3.8	2.1
Kentucky	11.7	8.3	25.6
Louisiana	12.0	3.9	32.7
Maine	17.5	9.7	..
Maryland	12.0	5.5	11.5
Massachusetts	16.1	13.8	69.2
Michigan	11.5	4.6	15.3
Minnesota	12.1	8.4	27.9
Mississippi	12.4	8.1	10.6
Missouri	10.4	5.1	10.9
Montana	13.4	6.7	..
Nebraska	13.9	3.4	2.4
Nevada	13.3	..	..
New Hampshire	17.7	21.2	4.6
New Jersey	11.7	6.6	8.2
New Mexico	11.5	1.7	16.2
New York	13.7	6.1	16.1
North Carolina	11.8	9.3	16.5
North Dakota	13.1	7.6	..
Ohio	11.4	6.2	22.2
Oklahoma	14.4	4.0	3.9
Oregon	13.0	12.8	..
Pennsylvania	13.3	8.0	11.5
Rhode Island	11.4	7.7	..
South Carolina	11.4	7.3	8.3
South Dakota	12.1	6.9	14.8
Tennessee	11.2	3.0	15.6
Texas	13.1	4.7	9.8
Utah	12.1	3.1	20.0
Vermont	18.5	5.8	9.1
Virginia	13.8	5.2	11.7
Washington	15.4	5.4	14.9
West Virginia	12.1	3.4	5.3
Wisconsin	10.0	5.0	17.7
Wyoming	9.8	5.6	5.0

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[1] Includes administrative nursing personnel and patient care unit supervisors, assistant supervisors, head nurses, and assistant head nurses.

[2] Includes full-time equivalent staff nurses, practical nurses, attendants, nursing aides, orderlies and other auxilliary nursing personnel, i.e. those working full time plus one-half of those working part time.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 109-Supervisory nursing personnel[1] per 100 bedside nursing personnel[2] in hospitals, by type of control of hospital, by region and State: 1966

Region and State	General				Psychiatric				Tuberculosis			
	Government	Voluntary	Proprietary	Federal	Government	Voluntary	Proprietary	Federal	Government	Voluntary	Proprietary	Federal
United States	13.4	12.5	15.6	11.5	7.0	12.8	17.1	7.0	14.9	14.8	2.3	10.9
Northeast	13.9	14.5	17.9	12.4	10.2	13.4	20.0	7.0	19.0	..	..	10.1
North Central	13.4	11.5	16.3	11.2	5.4	10.7	16.0	6.4	17.7	18.7	..	14.8
South	13.5	12.2	14.7	10.9	5.[illegible]	13.[illegible]	20.4	7.1	15.1	19.4	..	15.3
West	14.9	13.6	16.5	12.6	7.6	15.[illegible]	15.8	7.3	14.4	20.4	2.3	11.6
Alabama	11.8	9.6	9.2	11.0	3.6	..	22.2	6.4	15.2	19.4	..	..
Alaska	9.1	18.1	..	10.0	18.8	..	..	..	..	16.7	..	..
Arizona	17.3	14.2	15.6	10.6	4.2	11.3	7.7	..	1.5	..	2.3	7.8
Arkansas	12.4	14.7	13.6	14.4	..	..	..	5.4	..	..	..	..
California	15.0	13.3	15.5	14.1	7.1	13.2	17.4	7.8	11.0	25.4	..	10.7
Colorado	12.8	9.9	..	10.5	9.7	24.3	21.1	6.3	..	..	..	..
Connecticut	13.3	15.8	..	15.8	9.5	27.0	..	..	22.7	..	..	..
Delaware	..	10.3	..	9.5	6.6	..	..	..	18.2	..	..	..
District of Columbia	10.8	9.0	..	13.9	..	..	..	10.2	..	..	..	..
Florida	14.4	13.3	21.1	8.6	11.9	12.5	50.0	..	19.7	..	..	..
Georgia	11.9	11.3	16.1	9.8	8.5	..	21.2	9.3	13.7	..	..	..
Hawaii	10.1	11.0	7.7	12.0	..	..	..	..	..	9.0	..	..
Idaho	23.1	21.1	..	12.[illegible]	8.0	..	..	..	55.0	..	..	..
Illinois	10.8	11.5	16.1	11.[illegible]	6.1	4.4	10.5	7.7	17.4	14.8	..	..
Indiana	16.1	11.1	13.7	14.0	6.6	20.1	6.3	6.6	12.1	..	..	..
Iowa	12.0	11.7	17.1	15.0	6.6	13.5	..	5.6	12.5	..	..	..
Kansas	17.0	12.3	3.4	9.0	3.2	9.9	..	4.4	2.1	..	..	..
Kentucky	14.2	11.3	12.2	8.9	6.4	15.1	..	9.6	25.6	..	..	..
Louisiana	13.6	10.6	13.0	11.5	3.4	10.5	..	..	32.7	..	..	..
Maine	21.9	24.3	..	87.7	9.2	..	..	11.3	..	..	..	..
Maryland	10.6	13.1	..	10.4	3.9	16.9	9.9	7.0	10.5	..	..	15.3
Massachusetts	16.8	15.7	23.5	17.0	15.0	13.7	..	8.9	69.2	..	..	..
Michigan	14.0	10.7	47.2	13.1	4.4	5.5	7.3	5.6	15.3	..	..	..
Minnesota	13.2	11.9	..	10.8	8.4	..	..	..	27.9	..	..	..
Mississippi	13.1	11.2	28.6	11.2	9.0	..	..	7.2	10.6	..	..	..
Missouri	11.3	10.2	16.1	8.9	4.5	12.7	..	8.0	1[illegible].9	..	..	..
Montana	13.0	13.5	..	12.5	6.7	..	..	..	..	..	..	..
Nebraska	14.2	14.2	22.6	11.1	3.6	..	..	..	2.4	..	..	..
Nevada	8.8	14.9	20.8	26.5	..	..	..	..	..	..	..	..
New Hampshire	18.5	18.0	..	8.6	21.2	..	..	..	4.6	..	..	..
New Jersey	11.1	11.8	..	11.8	6.3	7.8	2[illegible].6	5.1	8.2	..	..	..
New Mexico	13.5	10.7	18.2	11.6	1.2	30.3	30.8	..	..	..	..	[illegible]
New York	13.4	13.7	16.7	11.3	10.0	14.2	16.6	60.6	21.0	..	..	[illegible]
North Carolina	10.7	12.4	12.9	10.7	10.0	18.6	..	6.1	16.5	..	..	..
North Dakota	22.2	13.3	..	11.2	7.6	..	..	..	..	..	..	..
Ohio	13.6	11.1	10.7	[illegible].5	5.4	4.4	39.4	6.3	22.6	10.0	..	..
Oklahoma	17.8	13.4	12.8	13.0	3.7	8.3	..	..	3.9	..	..	..
Oregon	7.3	15.0	22.3	..	16.4	11.1	4.0	6.8	..	..	..	..
Pennsylvania	12.9	13.2	15.5	15.7	8.1	9.3	26.5	5.1	11.4	..	..	..
Rhode Island	7.1	12.3	23.5	7.5	7.2	16.7	..	..	..	..	..	..
South Carolina	12.4	10.5	4.0	12.7	6.7	..	3[illegible].3	..	8.3	..	..	..
South Dakota	10.6	12.3	..	11.7	6.9	..	..	7.3	..	..	..	14.[illegible]
Tennessee	13.7	10.2	11.8	10.9	2.4	..	26.3	5.6	15.6	..	..	..
Texas	14.3	12.8	15.8	10.0	4.5	3.5	5.3	5.7	9.8	..	..	..
Utah	22.4	10.3	2.9	10.0	3.1	..	..	..	20.0	..	..	..
Vermont	..	19.1	..	11.5	5.7	5.9	..	..	9.1	..	..	..
Virginia	18.5	13.4	14.8	11.3	3.5	..	11.7	5.2	11.7	..	..	..
Washington	15.0	15.9	68.8	13.0	4.8	..	14.8	6.3	14.9	..	..	..
West Virginia	11.5	11.2	17.0	11.9	3.4	..	..	..	5.3	..	..	..
Wisconsin	9.4	10.1	..	10.8	4.0	16.4	..	4.7	17.1	25.0	..	..
Wyoming	11.3	8.1	..	7.7	.8	..	..	8.7	5.0	..	..	..

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[1] Includes administrative nursing personnel and patient care unit supervisors, assistant supervisors, head nurses, and assistant head nurses.

[2] Includes full-time equivalent staff nurses, practical nurses, attendants, nursing aides, orderlies and other auxilliary nursing personnel, i.e., those working full time plus one-half of those working part time.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 110-Supervisory registered nurses[1] per 100 staff nursing personnel[2] on inpatient units in AHA hospitals, by type of hospital, by region and State: 1972

Region and State	Federal Hospitals total	Non-Federal hospitals Total	General	Psychi-atric	Tubercu-losis	Other long-term
United States	9.2	10.8	11.2	8.2	16.4	11.9
Northeast	8.7	12.2	12.6	10.4	19.5	12.2
North Central	8.7	9.7	9.8	7.7	16.5	11.4
South	9.6	10.2	10.9	5.9	16.0	10.6
West	9.4	11.6	12.1	7.6	14.6	[illegible]
Alabama	7.6	8.9	9.9	2.8	17.4	..
Alaska	11.8	13.0	12.7	14.7	..	..
Arizona	11.7	11.0	11.2	7.0	13.3	..
Arkansas	5.5	12.1	12.3	7.1	..	..
California	8.8	11.7	12.6	6.0	37.9	13.4
Colorado	9.6	10.8	10.4	15.6	..	10.4
Connecticut	11.0	11.2	10.8	13.4	..	10.4
Delaware	11.5	10.5	10.3	8.1	23.3	14.9
District of Columbia	11.9	10.1	9.6	9.8	..	19.1
Florida	12.2	10.6	11.3	5.7	23.2	..
Georgia	9.6	9.5	10.0	7.3	12.2	14.7
Hawaii	10.5	11.0	10.5	12.1	9.4	16.4
Idaho	9.0	12.7	12.5	17.6	..	..
Illinois	9.3	9.6	9.6	10.0	14.7	12.2
Indiana	8.6	9.7	10.6	4.7	30.8	6.6
Iowa	5.1	10.2	10.4	8.2	6.9	13.8
Kansas	8.2	10.2	[illegible]	7.0	33.3	12.3
Kentucky	8.0	10.1	[illegible]	3.7	17.0	15.1
Louisiana	10.6	8.8	[illegible]	5.0	31.1	11.1
Maine	9.6	14.3	17.2	4.4	..	18.5
Maryland	11.6	9.8	11.0	5.5	24.4	10.5
Massachusetts	8.6	14.1	13.6	14.8	32.3	15.3
Michigan	9.1	9.9	10.4	7.5	20.0	9.4
Minnesota	9.7	10.1	10.0	10.6	42.9	7.1
Mississippi	9.3	9.5	10.5	2.3	16.8	..
Missouri	9.5	9.1	9.2	8.4	8.7	10.8
Montana	13.6	10.2	10.1	..	18.2	..
Nebraska	11.1	9.7	10.1	6.4	..	..
Nevada	11.8	13.5	13.4	14.0	..	..
New Hampshire	15.6	16.5	16.2	17.6	..	..
New Jersey	7.8	10.9	10.9	10.6	6.5	14.1
New Mexico	9.5	9.0	9.5	5.6	..	8.0
New York	7.5	12.5	13.7	9.0	26.4	10.7
North Carolina	7.7	11.3	10.9	11.8	25.7	12.8
North Dakota	10.0	[illegible]	10.3	5.4	..	.9
Ohio	7.7	9.6	9.8	[illegible]	17.6	14.1
Oklahoma	13.2	10.2	11.0	5.3	8.3	11.2
Oregon	6.8	13.9	13.9	[illegible]	..	11.1
Pennsylvania	9.7	11.0	10.9	11.4	11.8	11.3
Rhode Island	14.6	12.1	12.9	[illegible]	..	9.8
South Carolina	12.5	9.7	[illegible]	5.7	9.6	28.6
South Dakota	9.9	8.5	8.7	7.4	..	4.5
Tennessee	7.4	8.9	9.4	5.3	12.9	9.7
Texas	8.7	11.7	12.2	6.7	11.9	7.0
Utah	13.6	9.1	9.1	7.5	..	10.4
Vermont	13.8	10.9	13.5	4.7	..	..
Virginia	8.5	10.4	11.7	6.0	12.3	9.8
Washington	8.7	12.4	12.7	9.8	13.3	13.0
West Virginia	10.0	8.7	9.9	3.3	.8	1.5
Wisconsin	8.1	8.7	8.7	8.0	29.8	14.2
Wyoming	9.3	10.0	10.3	7.9	..	..
American Samoa	..	[illegible]	6.9	..	..	..
Canal Zone	4.5	..	..	..	..	..
Guam	18.1	9.7	9.7	..	..	..
Puerto Rico	9.0	10.1	10.2	9.5	8.0	..
Pacific Islands	7.7	..	..	.	..	..
Virgin Islands	..	10.2	10.2	..	..	..

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[1] Includes full-time equivalent administrative RNs and inpatient unit supervisors, assistant supervisors, head nurses, and assistant head nurses.

[2] Includes full-time equivalent inpatient unit staff RNs, LPNs, nursing aides, orderlies, attendants, and other auxiliary nursing personnel. Full-time equivalent equals persons working full time plus one-half of those working part time.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 111-Supervisory registered nurses[1] per 100 staff nursing personnel[2] on inpatient units in non-Federal AHA hospitals, by type and control of hospital, by region and State: 1972

	General			Psychiatric			Other long-term and tuberculosis		
	Government 3/	Voluntary	Proprietary	Government 3/	Voluntary	Proprietary	Government 3/	Voluntary	Proprietary
United States..........	11.6	10.8	14.5	7.8	14.0	14.5	12.7	11.9	10.9
Northeast............	14.1	12.1	18.2	10.2	14.2	12.9	12.6	13.3	12.7
North Central.......	10.7	9.6	11.6	7.3	15.9	12.3	12.1	12.2	4.5
South...............	10.6	13.7	13.3	5.3	12.8	14.2	13.5	10.2	..
West................	14.0	11.1	14.4	6.9	11.9	19.9	13.3	13.0	2.1
Alabama...............	10.1	9.2	12.5	2.3	50.0	..	14.4	43.7	..
Alaska................	15.[illegible]	12.2	..	14.7	..	..	..	..	..
Arizona...............	15.4	10.5	9.7	5.1	15.5	..	13.3	..	..
Arkansas..............	12.5	12.1	11.9	7.1	..	..	..	..	..
California............	14.8	11.4	13.9	5.0	12.5	18.8	13.9	14.2	2.1
Colorado..............	11.3	9.9	20.1	15.2	10.8	40.7	..	10.4	..
Connecticut...........	4.2	11.5	..	11.1	23.3	27.1	10.8	10.0	..
Delaware..............	..	10.3	..	8.1	..	..	15.8	..	..
District of Columbia..	12.2	5.2	..	..	..	9.8	20.4	10.0	..
Florida...............	10.3	11.9	12.6	5.1	13.5	14.8	23.2	..	..
Georgia...............	9.6	10.8	13.2	6.7	..	21.5	12.2	14.7	..
Hawaii................	10.6	10.5	8.3	12.1	..	..	13.1	13.0	..
Idaho.................	11.7	12.8	19.2	17.6	..	..	..	..	..
Illinois..............	10.4	9.4	18.4	9.9	10.9	12.5	12.6	12.7	..
Indiana...............	12.6	9.6	19.8	4.4	16.2	..	9.4	..	..
Iowa..................	11.0	10.1	8.2	8.2	..	..	6.9	13.8	..
Kansas................	11.3	10.1	4.5	6.7	9.3	..	13.3	..	..
Kentucky..............	12.7	10.1	10.3	2.2	10.7	..	17.0	15.1	..
Louisiana.............	10.4	8.3	11.0	4.2	12.1	8.6	31.1	11.1	..
Maine.................	19.0	17.2	..	4.4	..	..	18.5	..	..
Maryland..............	6.5	11.9	6.1	4.6	11.7	14.1	14.4	7.0	..
Massachusetts.........	15.2	13.2	21.2	15.6	8.7	8.1	16.8	14.6	12.1
Michigan..............	11.2	10.1	8.4	7.1	10.7	13.2	9.8	8.6	..
Minnesota.............	10.1	10.0	..	10.6	..	..	42.9	7.1	..
Mississippi...........	10.3	10.9	11.9	2.3	..	..	16.8	..	..
Missouri..............	10.0	9.0	10.0	8.1	16.0	..	9.9	12.3	..
Montana...............	6.3	10.1	28.9	..	..	..	18.2	..	..
Nebraska..............	8.2	10.8	8.2	6.4	..	..	..	..	..
Nevada................	9.0	7.7	30.9	14.0	..	..	..	..	..
New Hampshire.........	8.3	17.1	7.6	17.6	..	..	..	..	..
New Jersey............	12.4	10.7	13.3	10.8	22.4	4.0	12.8	14.6	..
New Mexico............	12.0	8.4	..	5.7	5.0	..	8.0	..	..
New York..............	15.0	12.8	18.4	8.9	13.6	15.1	11.7	10.1	15.9
North Carolina........	9.1	11.8	19.0	11.9	7.4	14.0	20.7	13.2	..
North Dakota..........	5.3	10.3	25.0	5.4	..	..	.9	..	..
Ohio..................	11.2	9.5	25.0	5.8	25.0	12.2	14.0	20.3	..
Oklahoma..............	12.0	10.4	11.6	5.0	15.0	..	9.0	15.3	..
Oregon................	17.6	13.5	10.8	14.5	..	..	..	11.1	..
Pennsylvania..........	12.7	10.6	17.4	11.0	13.6	25.8	9.9	15.7	..
Rhode Island..........	35.7	12.7	..	9.3	16.9	..	9.9	..	..
South Carolina........	10.2	10.2	11.[illegible]	5.7	7.1	..	11.2	37.0	..
South Dakota..........	9.1	8.7	..	7.4	..	..	..	4.5	..
Tennessee.............	10.3	8.3	13.0	4.9	50.0	17.9	11.3	..	..
Texas.................	12.2	11.6	14.8	5.8	..	13.2	11.9	7.0	..
Utah..................	11.9	8.4	7.9	7.5	..	..	9.1	17.4	..
Vermont...............	..	13.5	..	5.0	3.0	..	..	..	..
Virginia..............	16.5	10.7	13.7	5.2	12.6	15.8	11.2	..	..
Washington............	17.0	11.6	15.1	9.0	..	23.3	13.3	13.0	..
West Virginia.........	9.8	9.5	12.4	3.3	4.8	..	1.3	..	..
Wisconsin.............	7.5	8.8	12.1	7.0	24.1	5.0	20.4	12.7	4.5
Wyoming...............	10.7	9.3	..	7.9	..	..	..	..	..
American Samoa........	6.9	..	..	..	..	..	..	..	..
Canal Zone............	..	..	..	..	..	..	..	..	..
Guam..................	9.7	..	..	..	..	..	..	..	..
Puerto Rico...........	10.0	10.5	10.6	..	..	9.5	8.0	..	..
Pacific Islands.......	..	..	..	..	..	..	..	..	..
Virgin Islands........	10.2	..	..	..	..	..	..	..	..

1/ Includes full-time equivalent administrative RNs and inpatient unit supervisors, assistant supervisors, head nurses, and assistant head nurses.
2/ Includes full-time equivalent inpatient unit staff RNs, LPNs, nursing aides, orderlies, attendants, and other auxiliary nursing personnel. Full-time equivalent equals persons working full time plus one-half of those working part time.
3/ State and local government hospitals.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 112-Full-time equivalent personnel in hospitals in the United States, by selected type of personnel and type of hospital, 1973-1979

Year and type of personnel	Total		Type of hospital					
			General		Psychiatric		Other	
	Number	Percent change over prior year	Number	Percent change over prior year	Number	Percent change over prior year	Number	Percent change over prior year
1973								
Total personnel	2,768,607	+3.7	2,330,350	+4.5	332,636	-1.9	105,621	+4.8
Registered nurses	446,387	+4.9	413,037	+5.1	20,923	-0.9	12,427	+6.3
Licensed practical nurses	222,599	+3.2	198,742	+3.8	16,084	5.6	7,773	+7.2
1974								
Total personnel	2,918,736	+5.4	2,475,181	+6.2	338,187	+1.7	105,368	-0.2
Registered nurses	478,577	+7.2	443,617	+7.4	22,651	+8.3	12,309	-0.9
Licensed practical nurses	233,534	+4.9	209,708	+5.5	16,207	+0.8	7,619	-2.0
1975								
Total personnel	3,022,597	+3.6	2,593,708	+4.8	323,917	-4.2	104,972	-0.4
Registered nurses	510,118	+6.6	474,876	+7.0	22,632	-0.1	12,610	+2.4
Licensed practical nurses	239,949	+2.7	217,822	+3.9	14,800	-8.7	7,327	-3.8
1976								
Total personnel	3,107,614	+2.8	2,691,683	+3.8	315,336	-2.6	100,595	-4.2
Registered nurses	538,141	+5.5	502,786	+5.9	22,956	+1.4	12,399	-1.7
Licensed practical nurses	243,586	+1.5	221,080	+1.5	15,756	+6.5	6,750	-7.9
1977								
Total personnel	3,212,894	+3.4	2,789,434	+3.6	317,402	+0.7	106,058	+5.4
Registered nurses	570,117	+5.9	532,692	+6.0	23,949	+4.3	13,476	+8.7
Licensed practical nurses	253,184	+3.9	227,596	+3.0	18,539	+17.7	7,049	+4.4
1978								
Total personnel	3,280,231	+2.1	2,865,470	+2.7	308,823	-2.7	105,938	-0.1
Registered nurses	597,471	+4.8	559,579	+5.0	23,674	-1.2	14,218	+5.5
Licensed practical nurses	253,641	+0.2	229,450	+0.8	17,108	-7.7	7,083	+0.5
1979								
Total personnel	3,381,680	+3.1	2,960,845	+3.3	312,588	+1.2	108,247	+2.1
Registered nurses	627,215	+5.0	588,230	+5.1	24,434	+3.2	14,551	+2.3
Licensed practical nurses	257,209	+1.4	232,293	+1.2	17,583	+2.8	7,333	+3.5

SOURCE: American Hospital Association. Hospital Statistics, Data from the American Hospital Association Annual Survey, Annual eds. 1972-1980.

Table 113-Estimated average annual earnings of full time registered nurses in selected positions in non-federal hospitals in 22 metropolitan areas, September 1978

Metropolitan area	Directors of nursing	Supervisors	Clinical specialists	Nurse anesthetists	Instructors	Head nurses	General duty
Atlanta	$22,027	$15,829	$15,850	$22,090	$13,354	$14,872	$12,147
Baltimore	26,312	18,491	16,411	21,570	17,410	16,162	13,832
Boston	26,166	18,158	18,720	21,362	17,451	16,370	13,749
Buffalo	22,367	16,467	15,573	17,401	14,719	14,640	12,077
Chicago	27,539	19,614	17,805	21,403	18,242	17,805	14,810
Cleveland	23,005	18,450	NA	NA	15,912	16,973	14,685
Dallas - Fort Worth	21,341	16,224	15,288	19,365	14,997	14,726	12,563
Denver - Boulder	23,587	18,845	16,952	19,573	16,619	16,266	13,603
Detroit	26,582	19,323	19,011	22,859	17,846	17,410	15,413
Houston	21,632	17,160	NA	22,610	17,264	15,787	14,019
Kansas City	24,939	17,659	14,477	NA	16,765	15,912	13,187
Los Angeles - Long Beach	26,603	20,842	19,802	24,211	18,886	18,990	15,995
Miami	25,293	18,658	13,749	19,885	18,429	16,536	13,562
Milwaukee	25,251	18,574	18,075	19,635	16,661	16,286	13,728
Minneapolis - St. Paul	25,813	18,034	NA	19,531	16,598	16,536	13,562
New York, NY - NJ	27,431	19,083	NA	NA	18,594	16,756	14,840
Philadelphia	24,977	17,233	17,377	18,609	16,350	15,610	13,433
Portland, Oregon - Wash.	23,962	18,117	16,682	21,653	17,534	16,598	14,477
St. Louis	23,795	17,514	16,224	22,027	16,078	16,245	13,395
San Francisco - Oakland	27,227	21,320	20,821	20,654	20,322	19,843	17,306
Seattle - Everett	19,7[illegible]	19,198	18,512	NA	16,869	17,118	14,830
Washington, DC - MD - VA	28,108	19,109	18,636	21,910	17,441	17,236	13,817

SOURCE: Based on hourly wage rates in Bureau of Labor Statistics Hospital Industry Wage Surveys. Average hourly earnings converted to annual according to average scheduled weekly hours for professional employees derived from data in the Industry Wage Surveys.

Table 114-Estimated average annual earnings of full time registered nurses in selected positions in nongovernmental hospitals in 22 metropolitan areas, September 1978

Metropolitan area	Directors of nursing	Supervisors	Clinical specialists	Nurse anesthetists	Instructors	Head nurses	General duty
Atlanta	$21,715	$15,642	$16,162	NA	$12,771	$15,038	$12,064
Baltimore	25,210	18,845	16,203	21,570	17,202	16,058	13,728
Boston	28,974	19,094	18,[illegible]5	21,715	17,763	16,931	13,728
Buffalo	22,386	16,263	15,171	NA	14,391	14,645	11,993
Chicago	27,602	19,302	17,638	21,216	17,867	17,763	14,706
Cleveland	22,755	18,387	NA	NA	16,037	16,973	14,706
Dallas - Fort Worth	21,112	16,390	15,496	18,970	14,955	14,685	12,542
Denver - Boulder	23,005	18,574	17,035	19,157	16,619	15,954	13,499
Detroit	26,707	19,802	19,240	23,005	18,013	17,597	15,434
Houston	21,590	17,035	NA	20,675	16,515	15,704	13,915
Kansas City	24,232	17,763	NA	NA	16,910	16,203	13,208
Los Angeles - Long Beach	26,270	20,426	20,654	23,605	19,178	18,990	16,099
Miami	25,043	18,387	13,811	19,614	17,118	16,328	13,811
Milwaukee	25,064	18,346	18,013	19,947	16,494	16,557	13,645
Minneapolis - St. Paul	25,584	17,368	NA	19,302	NA	16,474	14,019
New York, NY -NJ	28,373	19,578	NA	NA	18,584	17,453	14,976
Philadelphia	24,874	17,213	17,315	18,609	16,124	15,569	13,413
Portland, Oregon - Wash.	23,754	18,054	15,704	21,674	NA	16,453	14,435
St. Louis	24,066	17,514	17,056	21,778	16,120	16,494	13,478
San Francisco - Oakland	27,310	21,216	20,634	21,466	20,259	19,968	17,493
Seattle - Everett	17,576	19,094	18,450	NA	17,368	17,202	14,830
Washington, DC - MD - VA	27,318	18,650	18,465	NA	17,089	17,110	13,700

SOURCE: Based on hourly wage rates in Bureau of Labor Statistics Hospital Industry Wage Surveys. Average hourly earnings converted to annual according to average scheduled weekly hours for professional employees derived from data in the Industry wage surveys.

Table 115-Average hourly earnings of registered nurses in non Federal hospitals, by type of position, region and metropolitan areas: August 1972 and September 1978

Region and metropolitan area	Directors of nursing			Supervisors of nursing			Head nurse			General duty nurse		
	Average hourly earnings		Avg. annual % change	Average hourly earnings		Avg. annual % change	Average hourly earnings		Avg. annual % change	Average hourly earnings		Avg. annual % change
	1972	1978		1972	1978		1972	1978		1972	1978	
Northeast												
Boston, Mass.	$8.34	$12.58	7.1	$6.05	$8.73	6.3	$5.48	$7.87	6.2	$4.63	$6.61	6.1
Buffalo, N.Y.	7.99	11.26	5.9	6.04	8.29	5.4	5.22	7.37	5.9	4.30	6.08	5.9
New York, N.J.	9.70	14.03	6.3	6.60	9.76	6.7	5.78	8.57	6.8	5.46	7.59	5.6
Philadelphia, PA - N.J.	7.62	12.16	8.1	5.58	8.39	7.0	5.13	7.60	6.8	4.31	6.54	7.2
South												
Atlanta, GA	7.55	10.59	5.8	5.15	7.61	6.7	4.75	7.15	7.0	4.29	5.84	5.3
Baltimore, MD	8.54	12.65	6.8	6.03	8.89	6.7	5.44	7.77	6.1	4.71	6.65	5.9
Dallas, Ft. Worth	6.19	10.26	8.8	5.25	7.80	6.8	4.66	7.08	7.2	4.13	6.04	6.5
Houston, TX	6.23	10.40	8.9	5.15	8.25	8.2	4.51	7.59	9.1	4.19	6.74	8.2
Memphis - Arkansas	6.39	--	--	5.14	7.52	6.5	4.77	6.98	6.6	4.28	--	--
Miami, FL	7.98	12.16	7.3	5.72	8.97	7.8	5.20	7.95	7.3	4.50	6.52	6.4
D.C./MD	8.46	13.65	8.3	6.40	9.28	6.4	5.74	8.37	6.5	4.56	6.71	6.6
North Central												
Cleveland, OH 2/	6.66	11.06	8.8	5.71	8.87	7.6	5.16	8.16	7.9	4.51	7.06	7.8
Chicago, IL	8.49	13.24	7.7	6.08	9.43	7.6	5.53	8.56	7.6	4.65	7.12	7.4
Detroit, MI	9.08	12.78	5.9	6.21	9.29	6.9	5.65	8.37	6.8	4.93	7.41	7.0
Kansas City, KA - MO	NR	--	--	NR	--	--	NR	--	--	NR	--	--
Milwaukee, WI	7.93	12.14	7.4	5.95	8.93	7.0	5.34	7.83	6.6	4.48	6.60	6.7
Minnesota St. Paul	8.14	12.41	7.3	5.71	8.67	7.2	5.24	7.95	7.2	4.50	6.74	7.0
St. Louis - Illinois	6.83	11.44	9.0	5.50	8.42	7.4	4.99	7.81	7.8	4.33	6.44	6.8
West												
Denver/Boulder	7.38	11.34	7.4	5.59	9.06	8.4	4.70	7.82	8.9	4.26	6.54	7.4
L.A. Long Beach	8.09	12.79	7.9	6.45	10.02	7.6	5.85	9.13	7.7	4.98	7.69	7.5
Portland, OR	7.03	11.52	8.6	5.35	8.71	8.5	4.83	7.98	8.7	4.38	6.96	8.0
S.F. Oakland	8.35	13.09	7.8	6.68	10.25	7.4	6.15	9.54	7.6	5.35	8.32	7.6
Seattle-Everett	7.89	9.49	3.1	5.54	9.23	8.9	5.01	8.23	8.6	4.43	7.13	8.2

1/ Weekly earnings published in August 1972 hospital study have been converted to hourly earnings based on average standard worksheet.
2/ Earnings as of February 1972.

NOTE: NR - No report. Dashes indicate no data or data do not meet publication criteria.

SOURCES: U.S. Department of Labor, Bureau of Labor Statistics. Earnings and Supplementary Benefits in Hospitals, August 1972.

Ibid. Industry Wage Survey, Hospitals, September 1978.
Ibid. Summary Press Release on Cleveland Hospitals, February 1972.

Table 116-Average hourly earnings of LPN's and nursing aides in non-Federal hospitals, by region and metropolitan area: August 1972 and September 1978

Region and metropolitan area	LPN's average hourly earnings			Nursing aides		
	1972	1978	avg. annual % change	1972	1978	avg. annual % change
Northeast						
Boston, Mass.	$3.74	$5.35	6.2	$2.86	$4.32	7.1
Buffalo, N.Y.	3.24	4.73	6.5	2.62	3.81	6.4
New York, N.J.	4.06	6.21	7.3	3.55	5.65	8.0
Philadelphia, PA - N.J.	3.36	5.30	7.9	2.76	4.61	8.9
South						
Atlanta, GA	3.04	4.20	5.5	2.38	3.39	6.1
Baltimore, MD	3.91	5.77	6.7	2.99	4.54	7.2
Dallas, Ft. Worth	2.75	4.37	8.0	2.16	3.03	5.8
Houston, TX	2.84	4.60	8.4	2.08	3.27	7.8
Memphis - Arkansas	3.14	--	--	2.48	3.79	7.3
Miami, FL	3.16	5.08	8.2	2.35	3.70	7.9
D.C./MD	3.49	5.12	6.6	2.81	4.36	7.6
North Central						
Cleveland, OH	3.24	5.15	8.0	2.61	4.34	8.3
Chicago, IL	3.69	5.63	7.3	2.99	4.61	7.5
Detroit, MI	3.94	5.93	7.0	2.93	4.45	7.2
Kansas City, KA - MD	NR	--	--	NR	--	--
Milwaukee, WI	3.31	5.11	7.5	2.61	4.32	8.8
Minnesota St. Paul	3.20	5.05	7.9	2.70	4.08	7.1
St. Louis - Illinois	3.20	4.80	7.0	2.40	3.78	7.9
West						
Denver/Boulder	2.89	4.66	8.3	2.38	3.80	8.1
L.A. Long Beach	3.73	5.63	7.1	2.93	4.30	6.6
Portland, OR	3.39	5.26	7.6	2.70	4.41	8.5
S.F. Oakland	4.16	6.34	7.3	3.68	5.81	7.9
Seattle-Everett	3.03	4.95	8.5	2.68	4.13	7.5

1/ Weekly earnings published in August 1972 hospital study have been converted to hourly earnings based on average standard worksheet.
2/ Earnings as of February 1972.

NOTE: NR - No report.

SOURCES: U.S. Department of Labor, Bureau of Labor Statistics. Earnings and Supplementary Benefits in Hospitals, August 1972.

Ibid. Industry Wage Survey, Hospitals, September 1978.
Ibid. Summary Press Release on Cleveland Hospitals, February 1972.

Table 117-Registered nurses and licensed practical nurses employed in nursing homes, 1971

Region and State	Total		Registered nurses		Licensed practical nurses	
	Full time	Part time	Full time	Part time	Full time	Part time
United States	93,059	46,944	40,160	26,274	52,899	20,670
Northeast	28,012	17,119	13,236	10,207	14,776	6,912
North Central	25,546	14,343	11,421	8,385	14,125	5,958
South	22,303	7,756	7,229	3,405	15,074	4,351
West	17,198	7,726	8,274	4,277	8,924	3,449
Alabama	1,425	369	340	110	1,085	259
Alaska	77	22	54	17	23	5
Arizona	495	220	284	148	211	72
Arkansas	763	301	254	140	509	161
California	9,857	4,493	4,580	2,390	5,277	2,103
Colorado	1,621	709	754	406	867	303
Connecticut	2,559	2,052	1,521	1,351	1,038	701
Delaware	162	109	91	78	71	31
District of Columbia	258	71	113	41	145	30
Florida	3,038	1,149	1,337	615	1,701	534
Georgia	1,937	517	564	208	1,373	309
Hawaii	306	85	138	49	168	36
Idaho	352	175	146	79	206	96
Illinois	4,639	2,017	2,044	1,218	2,595	799
Indiana	1,934	841	1,019	565	915	276
Iowa	1,765	1,029	864	586	901	443
Kansas	840	406	438	251	402	155
Kentucky	885	344	356	165	529	179
Louisiana	1,250	405	401	137	849	268
Maine	624	322	310	185	314	137
Maryland	1,100	592	541	391	559	201
Massachusetts	5,102	3,912	2,235	2,172	2,867	1,740
Michigan	3,179	1,790	1,365	894	1,814	896
Minnesota	2,489	2,241	1,340	1,358	1,149	883
Mississippi	546	203	170	69	376	134
Missouri	1,797	764	693	382	1,104	382
Montana	488	193	270	128	218	65
Nebraska	607	355	302	212	305	143
Nevada	164	30	87	12	77	18
New Hampshire	562	335	329	241	233	94
New Jersey	2,939	1,672	1,695	1,163	1,244	509
New Mexico	261	72	94	28	167	44
New York	8,699	5,079	4,004	2,899	4,695	2,180
North Carolina	1,258	492	536	239	722	253
North Dakota	297	213	164	141	133	72
Ohio	5,682	2,499	1,872	1,295	3,810	1,204
Oklahoma	1,460	468	470	205	990	263
Oregon	890	440	517	265	373	175
Pennsylvania	6,602	3,178	2,687	1,885	3,915	1,293
Rhode Island	529	309	261	154	268	155
South Carolina	659	243	295	144	364	99
South Dakota	372	297	233	212	139	85
Tennessee	935	308	248	109	687	199
Texas	5,190	1,486	931	365	4,259	1,121
Utah	351	149	128	60	223	89
Vermont	396	260	194	157	202	103
Virginia	1,140	557	478	309	662	248
Washington	2,205	1,078	1,160	656	1,045	422
West Virginia	297	142	104	80	193	62
Wisconsin	1,945	1,891	1,087	1,271	858	620
Wyoming	131	60	62	39	69	21

SOURCE: American Nurses' Association. Facts About Nursing. Kansas City, The Association, 1972-73, pp. 30, 32, 178, 179. Data collected for the 1971 Master Facility Inventory, National Center for Health Statistics, U.S. Public Health Service.

Table 118-Registered nurses and licensed practical nurses employed in nursing homes, 1973

Region and State	Total		Registered nurses		Licensed practical nurses	
	Full time	Part time	Full time	Part time	Full time	Part time
United States	96,928	51,928	41,181	29,084	55,747	22,844
Northeast..........	29,123	18,874	14,467	11,649	14,656	7,725
North Central......	26,600	16,539	11,306	9,420	15,294	7,119
South..............	24,496	7,831	7,355	3,106	17,141	4,725
West...............	16,709	8,684	8,053	4,909	8,656	3,775
Alabama	1,439	361	298	86	1,141	275
Alaska	63	17	40	14	23	3
Arizona	496	224	299	146	197	78
Arkansas	1,131	212	301	70	830	142
California	9,580	4,901	4,400	2,605	5,180	2,296
Colorado	1,531	833	725	514	806	319
Connecticut	2,210	2,322	1,336	1,595	874	727
Delaware	172	121	107	93	65	28
District of Columbia	238	33	91	19	147	14
Florida	3,125	1,096	1,372	553	1,753	543
Georgia	2,086	571	573	206	1,513	365
Hawaii	332	86	157	57	175	29
Idaho	349	235	153	128	196	107
Illinois	4,733	2,379	2,046	1,527	2,687	852
Indiana	1,882	871	955	582	927	289
Iowa	1,708	1,078	709	548	999	530
Kansas	821	363	407	237	414	126
Kentucky	854	382	308	184	546	198
Louisiana	1,280	396	340	112	940	284
Maine	648	360	319	203	329	157
Maryland	1,319	779	637	467	682	312
Massachusetts	5,014	4,437	2,327	2,437	2,687	2,000
Michigan	3,235	2,114	1,373	1,076	1,862	1,038
Minnesota	2,400	2,467	1,178	1,342	1,222	1,125
Mississippi	732	192	196	61	536	131
Missouri	1,958	910	736	421	1,222	489
Montana	410	291	209	170	201	121
Nebraska	745	414	338	248	407	166
Nevada	162	64	75	33	87	31
New Hampshire	570	459	350	318	220	141
New Jersey	3,108	2,004	1,822	1,372	1,286	632
New Mexico	250	65	96	31	154	34
New York	9,596	5,217	4,697	3,092	4,999	2,125
North Carolina	1,357	472	564	236	793	236
North Dakota	311	281	178	178	133	103
Ohio	5,891	2,754	1,879	1,369	4,012	1,385
Oklahoma	1,568	405	427	180	1,141	225
Oregon	1,002	510	587	334	415	176
Pennsylvania	6,935	3,418	3,156	2,267	3,779	1,151
Rhode Island	461	378	232	198	229	180
South Carolina	690	242	289	130	401	112
South Dakota	355	317	203	234	152	83
Tennessee	1,057	321	251	85	806	236
Texas	5,832	1,558	957	262	4,875	1,296
Utah	314	146	103	55	211	91
Vermont	481	279	228	167	253	112
Virginia	1,233	542	493	278	740	264
Washington	2,092	1,249	1,143	780	949	469
West Virginia	383	148	151	84	232	64
Wisconsin	2,561	2,591	1,304	1,658	1,257	933
Wyoming	128	63	66	42	62	21

SOURCE: American Nurses' Association. Facts About Nursing. Kansas City, The Association, 1976-77, pp. 27 and 234. Data collected for the 1973 Master Facility Inventory, National Center for Health Statistics, U.S. Public Health Service.

Table 119-Registered nurses and licensed practical nurses employed in nursing homes, 1976

Region and State	Total		Registered nurses		Licensed practical nurses	
	Full time	Part time	Full time	Part time	Full time	Part time
United States	107,381	62,089	45,817	34,378	61,564	27,711
Northeast	29,750	20,433	15,249	12,521	14,501	7,912
North Central	29,912	21,459	13,339	11,965	16,573	9,494
South	30,322	10,961	8,829	4,671	21,493	6,290
West	17,397	9,236	8,400	5,221	8,997	4,015
Alabama	1,758	617	400	205	1,358	412
Alaska	119	33	75	28	44	5
Arizona	653	267	435	167	218	100
Arkansas	1,356	361	367	97	989	264
California	9,351	4,783	4,145	2,548	5,206	2,235
Colorado	1,644	1,199	834	715	810	484
Connecticut	2,105	2,604	1,283	1,735	822	869
Delaware	152	150	92	113	60	37
District of Columbia	226	71	109	36	117	35
Florida	3,214	1,168	1,395	606	1,819	562
Georgia	2,590	789	765	354	1,825	435
Hawaii	453	126	260	85	193	41
Idaho	412	271	193	129	219	142
Illinois	5,821	3,197	2,850	1,973	2,971	1,224
Indiana	2,190	1,170	1,063	705	1,127	465
Iowa	1,913	1,234	836	647	1,077	587
Kansas	1,045	648	462	369	583	279
Kentucky	1,125	507	387	245	738	262
Louisiana	1,470	490	356	141	1,114	349
Maine	612	414	337	221	275	193
Maryland	1,657	935	705	517	952	418
Massachusetts	3,901	4,646	1,879	2,509	2,022	2,137
Michigan	4,009	3,068	1,819	1,638	2,190	1,430
Minnesota	2,360	2,752	1,138	1,477	1,222	1,275
Mississippi	1,100	289	307	114	793	175
Missouri	1,902	861	631	378	1,271	483
Montana	502	319	230	202	272	117
Nebraska	1,063	787	433	472	630	315
Nevada	243	67	116	43	127	24
New Hampshire	667	469	431	322	236	147
New Jersey	3,207	2,226	1,963	1,585	1,244	641
New Mexico	285	82	98	30	187	52
New York	11,133	5,596	5,543	3,246	5,590	2,350
North Carolina	1,670	776	729	374	941	402
North Dakota	343	377	170	210	173	167
Ohio	6,007	3,585	2,281	1,863	3,726	1,722
Oklahoma	1,462	472	360	206	1,102	266
Oregon	1,029	530	573	359	456	171
Pennsylvania	7,148	3,731	3,295	2,465	3,853	1,266
Rhode Island	570	500	318	298	252	202
South Carolina	778	305	333	159	445	146
South Dakota	384	376	217	242	167	134
Tennessee	1,672	570	391	175	1,281	395
Texas	7,668	2,397	1,201	749	6,467	1,648
Utah	389	175	139	24	250	151
Vermont	407	247	200	140	207	107
Virginia	1,971	847	741	453	1,230	394
Washington	2,177	1,288	1,231	788	946	500
West Virginia	453	219	191	127	262	92
Wisconsin	2,875	3,404	1,439	1,991	1,436	1,413
Wyoming	140	76	71	33	69	43

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, National Center for Health Statistics. Inpatient Health Facilities as Reported From the 1976 MFI Survey. Vital and Health Statistics -- Series 14, No. 23. DHEW Pub. No. (PHS) 80-1818. Washington: U.S. Government Printing Office, 1980, p. 28.

Table 120-Registered nurses and licensed practical nurses employed in nursing homes, 1978

Region and State	Total		Registered nurses		Licensed practical nurses	
	Full time	Part time	Full time	Part time	Full time	Part time
United States	103,364	58,821	44,579	32,084	58,785	26,737
Northeast..........	30,866	21,225	15,683	12,884	15,183	8,341
North Central......	27,027	19,248	12,127	10,370	14,900	8,878
South..............	28,160	9,731	8,221	3,961	19,939	5,770
West...............	17,311	8,617	8,548	4,869	8,763	3,748
Alabama	1,859	604	402	170	1,457	434
Alaska	57	9	32	6	25	3
Arizona	753	266	427	172	326	94
Arkansas	1,285	270	292	66	993	204
California[1/]	9,351	4,783	4,145	2,548	5,206	2,235
Colorado	1,403	1,233	763	798	640	435
Connecticut	1,705	1,732	1,038	1,179	667	553
Delaware	238	169	137	95	101	74
District of Columbia[1/]	226	71	109	36	117	35
Florida	2,903	1,121	1,272	578	1,631	543
Georgia	2,830	670	811	258	2,019	412
Hawaii	561	154	329	99	232	55
Idaho	376	240	164	134	212	106
Illinois	4,164	2,106	2,050	1,290	2,114	816
Indiana	1,896	898	883	562	1,013	336
Iowa	2,403	1,210	1,088	613	1,315	597
Kansas	1,056	456	528	274	528	182
Kentucky	1,223	377	491	194	732	183
Louisiana	1,133	288	257	67	876	221
Maine	729	795	373	434	356	361
Maryland	1,413	800	622	505	791	295
Massachusetts	3,713	4,851	1,873	2,621	1,840	2,230
Michigan	3,499	2,821	1,444	1,402	2,055	1,419
Minnesota	2,602	3,143	1,300	1,663	1,302	1,480
Mississippi	793	262	202	102	591	160
Missouri	1,868	948	615	450	1,253	498
Montana	410	277	202	179	208	98
Nebraska	698	514	266	281	432	233
Nevada	150	77	83	39	67	38
New Hampshire	513	430	245	222	268	208
New Jersey	3,182	2,427	1,807	1,676	1,375	751
New Mexico	424	76	243	34	181	42
New York[1/]	11,133	5,596	5,543	3,246	5,590	2,350
North Carolina[1/] ...	1,670	776	729	374	941	402
North Dakota	567	321	279	188	288	133
Ohio	4,889	2,496	2,000	1,293	2,889	1,203
Oklahoma	965	293	254	134	711	159
Oregon	895	458	540	292	355	166
Pennsylvania	8,899	4,397	4,265	2,920	4,634	1,477
Rhode Island	545	672	307	396	238	276
South Carolina	831	328	365	173	466	155
South Dakota	508	372	291	226	217	146
Tennessee	1,598	521	362	141	1,236	380
Texas	6,939	2,130	1,007	539	5,932	1,591
Utah	390	161	123	76	267	85
Vermont	447	325	232	190	215	135
Virginia	1,720	839	727	409	993	430
Washington	2,360	832	1,402	467	958	365
West Virginia	534	212	182	120	352	92
Wisconsin	2,877	3,963	1,383	2,128	1,494	1,835
Wyoming	181	51	95	25	86	26

[1/] 1976 data are shown because of low response rate for the 1978 survey of this area.

SOURCE: U.S. Department of Health and Human Services, Public Health Service, National Center for Health Statistics. Inpatient Health Facilities United States, 1978 as reported from the 1978 National Master Facility Inventory. Vital and Health Statistics -- Series 14, No. 24. DHHS Pub. No. (PHS) 81-1819. Washington: U.S. Government Printing Office, 1981, p. 24.

Table 121-Average hourly earnings of registered nurses, licensed practical nurses and nursing aides in privately-owned nursing homes and related facilities, by region and metropolitan area, September 1978

Region and metropolitan area	Average hourly earnings General duty RN's Full time	Part time	LPN's Full time	Part time	Nursing Aides Full time	Part time
Northeast						
Boston	$5.59	$5.59	$4.76	$4.69	$3.14	$3.11
Buffalo	5.25	5.35	4.00	3.82	3.03	2.95
New York City	8.16	7.96	7.16	7.35	5.61	5.38
Philadelphia	5.99	5.73	4.78	4.49	3.16	3.00
South						
Atlanta	5.33	5.29	3.88	3.76	2.75	2.72
Baltimore	5.87	5.71	4.80	4.72	3.40	3.23
Dallas	5.61	5.52	4.52	4.40	2.75	2.73
Houston	6.10	6.51	4.50	4.54	2.81	2.74
Miami	5.29	5.19	4.39	4.33	2.91	3.40
Washington, D.C.	5.88	5.67	4.70	4.73	3.10	3.36
North Central						
Chicago	6.12	6.09	4.75	4.69	3.07	2.91
*Cincinnati						
Cleveland	5.84	5.82	4.44	4.52	3.01	2.87
Detroit	5.85	5.85	4.97	4.87	2.95	2.85
Milwaukee	6.73	6.57	5.38	5.42	3.23	3.19
Minneapolis-St. Paul	6.34	6.30	4.97	4.84	3.55	3.40
St. Louis	5.82	5.64	4.43	4.42	2.91	2.87
West						
Denver	5.46	5.39	4.33	4.30	2.87	2.81
Los Angeles	7.24	7.20	5.78	5.76	3.12	3.08
*Portland						
San Francisco	6.95	6.85	5.30	5.16	3.44	3.30
Seattle	6.32	5.89	4.74	4.54	3.22	3.14

*NA

SOURCE: U.S. Department of Labor Statistics, Industry Wage Survey. Nursing Homes, Personal Care, and Facilities. September 1978.

Table 122-Administrative and staff registered nurses employed full time or part time for public health work in State and local agencies, by region and State: selected years 1947-79

Region and State	Administrative[1]				Staff nurses			
	1947	1962	1972	1979	1947	1962	1972	1979
United States	2,330	3,821	8,291	14,102	18,537	30,862	47,227	63,091
Northeast	868	1,301	2,373	4,612	7,777	11,459	15,767	17,910
North Central	607	1,004	2,270	3,006	4,631	6,889	11,068	15,908
South	471	785	2,341	4,339	3,668	6,883	11,681	18,564
West	384	731	1,307	2,145	2,461	5,631	8,711	10,709
Alabama	15	26	112	173	194	248	418	804
Alaska	4	10	29	26	39	61	125	179
Arizona	12	20	68	133	138	371	698	[illegible]
Arkansas	11	18	25	98	97	138	287	444
California	163	440	609	1,114	1,466	3,487	4,648	5,185
Colorado	21	51	120	183	144	348	744	1,078
Connecticut	58	96	216	432	509	807	1,298	2,302
Delaware	9	10	29	37	77	187	258	332
District of Columbia	26	26	93	60	154	181	134	246
Florida	35	95	234	723	305	612	986	2,464
Georgia	60	76	139	403	302	576	848	1,666
Hawaii	13	20	37	66	79	80	150	231
Idaho	11	12	12	56	42	64	156	213
Illinois	144	248	[illegible]	393	995	1,444	2,504	3,026
Indiana	33	78	154	[illegible]	368	582	1,043	1,437
Iowa	29	36	70	121	[illegible]	375	763	979
Kansas	13	26	104	138	174	317	541	707
Kentucky	20	49	119	259	237	353	573	835
Louisiana	31	47	146	315	193	285	494	688
Maine	10	19	69	68	128	149	292	487
Maryland	50	85	364	290	322	658	1,050	1,200
Massachusetts	135	159	379	474	1,244	1,450	1,992	2,691
Michigan	116	170	591	399	689	873	1,003	1,694
Minnesota	31	62	157	307	379	524	997	1,688
Mississippi	22	26	35	125	134	244	400	791
Missouri	41	61	126	242	334	568	1,026	1,516
Montana	12	16	41	47	51	79	147	255
Nebraska	6	12	32	114	94	114	274	433
Nevada	2	6	18	44	18	61	119	171
New Hampshire	10	23	52	146	144	206	370	656
New Jersey	135	168	334	409	1,116	1,802	2,639	3,113
New Mexico	11	29	39	60	75	180	310	413
New York	333	514	778	1,280	2,732	4,135	5,190	4,620
North Carolina	25	49	122	300	347	527	882	1,357
North Dakota	7	13	20	32	41	56	72	165
Ohio	131	201	412	635	923	1,370	1,822	2,787
Oklahoma	17	27	72	57	[illegible]	225	406	539
Oregon	23	39	112	162	[illegible]	221	469	872
Pennsylvania	135	272	437	[illegible]	1,061	2,585	3,492	3,273
Rhode Island	44	40	59	63	174	220	284	380
South Carolina	17	40	121	153	231	254	567	997
South Dakota	4	7	16	20	33	52	178	179
Tennessee	34	35	139	300	239	353	638	1,170
Texas	52	81	302	712	324	1,318	1,987	2,576
Utah	11	24	69	75	75	129	327	334
Vermont	8	10	49	82	69	105	210	388
Virginia	36	73	257	245	293	552	1,109	2,029
Washington	99	58	144	167	199	484	730	904
West Virginia	[illegible]	22	32	89	93	172	344	426
Wisconsin	52	90	204	300	405	614	845	1,297
Wyoming	[illegible]	[illegible]	9	12	22	66	88	147
Guam	--	--	--	11	--	--	48	56
Puerto Rico	23	64	164	159	266	320	606	1,112
Virgin Islands	2	4	21	24	13	23	67	64

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[1] Administrative includes directors, consultants, supervisors, coordinators, etc. Agencies includes include public health agencies and boards of education.

SOURCES: U.S. Department of Health and Human Services. Survey of Community Health Nursing, 1979. Unpublished preliminary data.

U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 123-Proportion of registered nurses employed full time or part time for public health work in local agencies[1] by region and State: selected years 1947-79

Region and State	Percent of total registered nurses employed by:											
	Official health agencies[2]				Other health agencies[3]				Boards of education			
	1947	1962	1972	1979	1947	1962	1972	1979	1947	1962	1972	1979
United States	50	47	43	39	13	13	15	29	24	37	40	28
Northeast	33	32	27	22	[illegible]	21	23	39	31	45	49	37
North Central	[illegible]	47	41	40	22	13	14	27	22	36	40	28
South	77	71	64	53	13	6	11	26	9	19	20	15
West	55	46	47	40	10	6	9	21	32	46	40	34
Alabama	86	84	76	63	7	7	9	20	1	3	6	8
Alaska	89	62	35	19	--	--	3	--	2	32	29	41
Arizona	50	26	36	36	7	7	3	10	43	65	59	52
Arkansas	76	83	63	55	9	3	6	9	12	9	26	20
California	45	40	44	37	12	7	9	20	40	52	46	40
Colorado	[illegible]	59	56	47	22	--	12	15	31	38	25	37
Connecticut	23	25	25	14	54	42	34	[illegible]	21	28	40	17
Delaware	39	20	16	17	25	11	8	32	36	68	8	43
District of Columbia	60	52	57	35	40	25	42	46	--	19	--	--
Florida	79	83	86	41	14	13	8	53	6	--	1	7
Georgia	[illegible]	85	76	65	8	4	10	31	3	5	8	1
Hawaii	84	89	65	33	--	4	17	38	16	--	11	10
Idaho	67	75	54	56	7	--	5	19	26	21	40	20
Illinois	54	36	29	31	27	18	12	24	17	42	47	35
Indiana	36	39	29	35	34	16	16	27	30	42	54	36
Iowa	25	[illegible]	21	32	[illegible]	14	11	13	45	58	64	52
Kansas	55	38	40	46	10	4	5	8	33	[illegible]	47	42
Kentucky	80	84	55	58	19	10	29	32	--	1	8	5
Louisiana	82	84	52	53	9	4	35	26	8	7	11	12
Maine	36	52	30	14	[illegible]	26	42	47	16	21	23	28
Maryland	77	88	83	75	15	5	6	17	8	5	8	6
Massachusetts	33	33	28	21	43	33	38	50	24	30	33	27
Michigan	66	62	58	52	21	16	20	36	13	19	20	8
Minnesota	45	38	44	45	18	6	4	26	34	51	47	28
Mississippi	98	95	67	44	--	[4]	6	37	1	--	23	9
Missouri	32	35	29	27	22	10	14	33	40	49	50	35
Montana	80	65	61	58	4	--	9	26	10	19	21	12
Nebraska	22	36	29	10	27	--	6	33	46	62	63	56
Nevada	72	39	51	34	--	--	9	24	28	58	39	28
New Hampshire	33	22	8	6	29	29	40	42	28	45	45	47
New Jersey	[illegible]	31	23	19	22	18	14	27	41	49	61	[illegible]
New Mexico	63	38	41	23	9	4	10	33	27	52	49	43
New York	48	40	38	40	24	13	14	24	27	45	14	34
North Carolina	94	96	82	83	4	1	1	11	--	[4]	15	4
North Dakota	95	90	86	89	--	--	3	5	--	3	3	3
Ohio	65	58	51	41	17	11	16	33	16	28	29	22
Oklahoma	72	61	54	50	9	2	14	12	17	29	28	31
Oregon	82	78	66	49	10	5	11	31	8	13	12	19
Pennsylvania	12	25	18	15	36	17	20	38	40	57	61	47
Rhode Island	17	10	--	--	58	40	52	64	21	33	40	35
South Carolina	66	73	59	73	13	2	6	7	15	11	26	18
South Dakota	61	49	57	67	--	--	9	6	33	44	30	21
Tennessee	82	84	71	61	11	4	2	26	5	7	9	3
Texas	64	33	34	26	9	4	8	18	27	62	54	49
Utah	92	86	38	42	4	6	7	41	4	2	11	4
Vermont	30	32	10	2	33	29	52	44	26	29	32	36
Virginia	63	68	74	55	19	8	6	24	15	21	17	18
Washington	70	65	54	49	8	2	4	27	22	28	36	23
West Virginia	56	67	53	44	14	4	13	20	26	20	27	20
Wisconsin	73	72	66	59	21	17	20	30	5	9	12	9
Wyoming	50	22	38	41	--	--	--	5	45	71	56	49
Guam	--	--	56	31	--	--	--	--	--	--	--	63
Puerto Rico	--	99	71	42	1	--	24	49	--	--	--	7
Virgin Islands	--	62	47	33	--	--	25	30	38	--	17	23

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[1] The proportion employed by State agencies is not directly shown in this table. This figure is the difference between 100 percent and the sums of the percentages for the three types of local agencies shown.

[2] Official health agencies include local health departments and combination services.

[3] Other health agencies include visiting nurse associations and other voluntary organizations for all years. 1972 figures also include categorical programs, hospital-based home care programs, and other certified home health agencies.

[4] Less than 0.5 percent.

SOURCES: U.S. Department of Health, Education, and Welfare Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

U.S. Department of Health and Human Services Survey of Community Health Nursing, 1979. Unpublished preliminary data.

Table 124–Licensed practical nurses employed full time and part time in public health work by type of employing agency by region and State: 1968 and 1979

	Total		Official health agency1/		Other health agency2/		Board of education	
	1968	1979	1968	1979	1968	1979	1968	1979
United States..........	1,681	6,436	823	2,283	651	3,805	207	348
Northeast............	465	1,144	123	161	337	961	5	22
North Central........	523	1,613	272	565	186	1,034	65	14
South................	541	2,708	299	1,163	107	1,276	135	269
West.................	152	971	129	394	21	534	2	43
Alabama..............	3	84	—	26	2	53	1	5
Alaska...............	4	2	4	2	—	—	—	—
Arizona..............	37	102	27	51	10	26	—	25
Arkansas.............	34	98	—	35	2	6	32	57
California...........	—	323	—	160	—	163	—	—
Colorado.............	33	53	33	42	—	11	—	—
Connecticut..........	23	593	—	5	22	588	1	—
Delaware.............	11	76	2	8	9	68	—	—
District of Columbia..	84	79	67	58	17	21	—	—
Florida..............	13	197	1	70	12	127	—	—
Georgia..............	48	220	33	120	—	100	15	—
Hawaii...............	12	87	12	36	—	51	—	—
Idaho................	6	22	4	8	2	14	—	—
Illinois.............	197	214	94	147	49	67	54	—
Indiana..............	24	132	15	32	9	96	—	4
Iowa.................	16	28	2	9	14	9	—	10
Kansas...............	5	49	5	40	—	9	—	—
Kentucky.............	14	147	—	85	2	62	12	—
Louisiana............	32	138	4	73	23	43	5	22
Maine................	1	2	1	2	—	—	—	—
Maryland.............	17	73	—	12	13	59	4	2
Massachusetts........	70	133	6	19	63	99	1	15
Michigan.............	79	128	25	42	53	86	1	—
Minnesota............	30	273	20	44	9	229	1	—
Mississippi..........	2	55	—	—	—	42	2	13
Missouri.............	32	265	14	105	9	160	9	—
Montana..............	2	12	2	8	—	4	—	—
Nebraska.............	7	20	7	1	—	19	—	—
Nevada...............	3	46	3	8	—	31	—	7
New Hampshire........	3	11	—	1	3	10	—	—
New Jersey...........	70	58	20	18	49	40	1	—
New Mexico...........	13	48	11	16	1	22	1	10
New York.............	198	117	84	19	114	48	—	—
North Carolina.......	22	137	16	109	4	28	2	—
North Dakota.........	2	7	2	7	—	—	—	—
Ohio.................	83	291	59	107	24	184	—	—
Oklahoma.............	32	71	30	30	—	41	2	—
Oregon...............	23	73	17	26	6	47	—	—
Pennsylvania.........	70	179	11	44	57	129	2	6
Rhode Island.........	25	27	—	1	25	25	—	1
South Carolina.......	14	96	—	50	2	3	12	43
South Dakota.........	12	17	12	17	—	—	—	—
Tennessee............	66	283	46	121	—	144	20	18
Texas................	118	64[illegible]	79	279	15	259	24	103
Utah.................	2	154	2	8	—	146	—	—
Vermont..............	5	24	1	2	4	22	—	—
Virginia.............	26	260	16	64	6	191	4	5
Washington...........	17	47	14	29	2	17	1	1
West Virginia........	5	53	5	23	—	29	—	—
Wisconsin............	36	189	17	14	19	175	—	—
Wyoming..............	—	2	—	—	—	2	—	—
Guam.................	3	7	3	—	—	7	—	—
Puerto Rico..........	66	452	57	78	9	329	—	45
Virgin Islands.......	—	11	—	7	—	4	—	—

1/ Includes State and local health departments and combination services.
2/ Includes visiting nurse associations and other voluntary organizations.

SOURCES: U.S. Department of Health and Human Services. Survey of Community Health Nursing, 1979. Unpublished preliminary data.

U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 125-Auxiliary personnel employed full time or part time in State and local public health agencies, by region and State: 1979

Region and State	Total auxiliary	Nursing auxiliary			Non-nursing auxiliary		
		Total	Home health aide	Nursing aide and other	Total	Clerical	Non-nursing aide and other
United States	59,412	34,774	26,776	7,998	24,638	21,166	3,472
Northeast	14,476	10,054	9,071	983	4,422	3,778	644
North Central	13,183	7,460	5,983	1,477	5,723	4,829	894
South	25,139	13,802	9,373	4,429	11,337	9,978	1,359
West	6,614	3,458	2,349	1,109	3,156	2,581	575
Alabama	999	485	376	109	514	433	81
Alaska	83	14	7	7	69	61	8
Arizona	345	137	49	88	208	171	37
Arkansas	583	225	60	165	358	348	10
California	2,776	1,587	1,254	333	1,189	874	315
Colorado	629	258	111	147	371	291	80
Connecticut	4,677	4,177	3,867	310	500	439	61
Delaware	675	571	159	412	104	79	25
District of Columbia	766	672	544	128	94	71	23
Florida	2,972	1,759	1,419	340	1,213	1,120	93
Georgia	1,876	550	305	245	1,326	1,162	164
Hawaii	182	54	20	34	128	104	24
Idaho	160	77	74	3	83	80	3
Illinois	1,508	760	574	186	748	598	150
Indiana	1,297	759	612	147	538	413	125
Iowa	529	357	351	6	172	169	3
Kansas	327	129	110	19	198	188	10
Kentucky	1,547	415	203	212	1,132	911	221
Louisiana	1,688	1,050	852	198	638	612	26
Maine	241	126	88	38	115	67	48
Maryland	855	355	198	157	500	463	37
Massachusetts	2,655	1,810	1,607	203	845	724	121
Michigan	1,390	565	461	104	825	759	66
Minnesota	2,413	1,827	1,554	273	586	461	125
Mississippi	1,261	576	296	280	685	625	60
Missouri	1,560	1,020	750	270	540	476	64
Montana	351	261	243	18	90	73	17
Nebraska	131	48	48	—	83	79	4
Nevada	153	115	60	55	38	31	7
New Hampshire	345	197	190	7	148	132	16
New Jersey	1,064	559	501	58	505	473	32
New Mexico	264	81	47	34	133	172	11
New York	2,948	1,781	1,540	241	1,167	1,039	128
North Carolina	1,520	526	236	290	994	833	161
North Dakota	112	72	71	1	40	38	2
Ohio	2,233	661	432	229	1,572	1,267	305
Oklahoma	615	339	209	130	276	207	69
Oregon	629	279	91	188	350	326	24
Pennsylvania	2,001	1,124	1,051	73	877	670	207
Rhode Island	264	152	110	42	112	89	23
South Carolina	757	219	121	98	538	495	43
South Dakota	122	58	55	3	64	57	7
Tennessee	1,882	973	698	275	909	752	157
Texas	4,017	3,055	1,979	1,076	962	853	109
Utah	349	224	58	166	125	96	29
Vermont	281	128	117	11	153	145	8
Virginia	2,634	1,843	1,549	294	791	748	43
Washington	634	350	315	35	284	265	19
West Virginia	492	189	169	20	303	266	37
Wisconsin	1,561	1,204	965	239	357	324	33
Wyoming	59	21	20	1	38	37	1
Guam	12	8	8	4	4	—	—
Puerto Rico	859	265	146	119	594	359	235
Virgin Islands	38	26	12	14	12	12	—

SOURCES: U.S. Department of Health and Human Services. Survey of Community Health Nursing, 1979. Unpublished preliminary data.

U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, US. Government Printing Office, 1974.

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Table 126-Educational preparation of staff registered nurses in public health, all State and local agencies, by region and State: selected years 1942-72

Region and State	Percent with baccalaureate or higher degree				Percent who completed approved public health nursing education			
	1942	1952	1962	1972[1]	1942	1952	1962	1972[1]
United States	10	18	32	42	24	30	37	39
Northeast	7	15	32	47	17	29	39	37
North Central	12	18	29	35	27	29	36	24
South	8	10	18	26	19	22	24	26
West	24	34	53	67	53	[illegible]	51	65
Alabama	3	2	9	7	12	10	28	6
Alaska	34	52	75	80	82	64	75	74
Arizona	3	18	22	23	40	31	29	23
Arkansas	11	12	8	8	30	32	24	12
California	27	36	60	78	42	46	49	74
Colorado	10	38	57	61	31	34	49	59
Connecticut	11	20	28	37	29	22	24	35
Delaware	23	3	8	[illegible]	5	21	9	36
District of Columbia	13	50	56	29	36	74	56	32
Florida	8	12	22	31	23	29	32	35
Georgia	6	6	10	13	17	11	20	18
Hawaii	12	24	47	58	87	83	100	85
Idaho	24	18	23	21	50	24	30	19
Illinois	6	12	29	31	15	25	39	31
Indiana	14	23	31	59	30	24	32	55
Iowa	10	16	24	31	37	28	28	24
Kansas	8	12	18	37	14	23	19	14
Kentucky	5	4	8	25	11	9	11	[illegible]
Louisiana	4	6	16	17	7	16	16	27
Maine	2	7	10	8	22	31	35	8
Maryland	3	7	23	51	9	9	28	50
Massachusetts	4	6	19	20	18	14	23	22
Michigan	12	22	33	42	44	42	44	35
Minnesota	25	40	58	57	48	63	73	60
Mississippi	26	4	3	21	17	7	5	21
Missouri	8	15	21	9	21	19	23	5
Montana	19	23	18	61	62	46	31	67
Nebraska	18	16	34	23	15	20	18	24
Nevada	14	13	44	49	64	48	46	55
New Hampshire	1	5	9	13	12	17	17	14
New Jersey	5	11	20	45	10	17	25	27
New Mexico	18	33	27	41	82	61	44	45
New York	11	25	45	60	23	52	64	54
North Carolina	4	4	12	18	17	29	28	18
North Dakota	8	—	12	51	34	24	21	44
Ohio	13	16	24	34	19	16	25	36
Oklahoma	10	12	[illegible]	19	30	24	19	19
Oregon	44	55	[illegible]	62	91	81	67	61
Pennsylvania	3	8	[illegible]	58	8	11	28	36
Rhode Island	3	6	15	25	13	12	18	25
South Carolina	4	7	6	6	10	16	20	6
South Dakota	6	13	23	16	19	40	19	20
Tennessee	11	17	16	16	25	30	53	19
Texas	12	10	30	37	13	14	20	29
Utah	6	16	36	50	48	33	57	54
Vermont	4	8	17	20	25	34	46	31
Virginia	9	16	21	28	41	48	36	26
Washington	29	38	54	78	83	70	66	81
West Virginia	6	5	11	28	26	13	11	27
Wisconsin	8	21	31	24	19	33	51	48
Wyoming	35	19	32	38	56	9	42	39

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[1] 1972 figures include full time and part time RN's and are based on a 36 percent sample of staff. Prior years include full time only and percents are based on total staff RN's reported.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 127-Educational preparation of registered nurses in administrative positions[1] in public health, all State and local agencies, by region and State: selected years 1942-72

Region and State	Percent with baccalaureate or higher degree				Percent who completed approved public health nursing education			
	1942	1952	1962	1972[2]	1942	1952	1962	1972[2]
United States	34	62	73	68	65	81	83	67
Northeast	31	62	78	76	60	80	85	70
North Central	32	60	69	57	64	76	78	60
South	41	59	66	58	72	84	88	61
West	36	72	78	88	72	85	80	84
Alabama	57	82	73	66	90	94	96	58
Alaska	100	100	100	86	50	100	80	79
Arizona	17	70	90	88	100	80	100	87
Arkansas	25	78	56	76	88	100	100	96
California	27	61	77	96	50	71	73	84
Colorado	35	83	88	90	76	79	90	90
Connecticut	51	71	79	57	76	81	79	56
Delaware	33	50	70	31	100	90	90	45
District of Columbia	77	89	96	68	91	89	100	65
Florida	21	59	59	61	84	97	90	60
Georgia	44	69	72	65	81	95	97	81
Hawaii	88	53	70	92	44	100	100	97
Idaho	83	100	50	67	100	100	75	75
Illinois	25	41	58	42	43	65	72	57
Indiana	28	64	72	79	69	60	64	72
Iowa	36	69	67	49	67	72	72	51
Kansas	30	60	46	27	80	90	65	28
Kentucky	30	31	38	41	67	60	81	47
Louisiana	33	52	49	34	62	68	62	17
Maine	50	73	53	41	75	91	74	39
Maryland	41	66	81	59	54	88	91	63
Massachusetts	18	45	69	65	55	69	77	66
Michigan	45	75	85	66	95	95	91	63
Minnesota	48	78	80	67	82	82	89	67
Mississippi	46	56	58	31	42	89	81	66
Missouri	33	70	67	31	77	77	72	26
Montana	43	50	56	68	86	100	100	93
Nebraska	33	83	92	72	60	75	83	66
Nevada	50	100	83	67	100	100	100	67
New Hampshire	7	36	35	37	28	73	48	38
New Jersey	27	52	62	70	52	66	77	68
New Mexico	22	70	66	79	89	94	83	77
New York	35	77	91	89	60	90	93	86
North Carolina	44	57	74	59	81	97	96	83
North Dakota	40	75	54	50	100	100	92	65
Ohio	23	52	66	59	48	71	76	59
Oklahoma	30	68	81	35	90	91	92	43
Oregon	44	78	82	69	100	96	95	71
Pennsylvania	27	43	78	89	62	73	86	65
Rhode Island	45	61	70	83	59	94	80	83
South Carolina	20	54	58	65	73	92	95	77
South Dakota	—	80	86	69	50	80	86	75
Tennessee	31	43	69	63	74	85	94	80
Texas	43	51	70	60	63	75	74	64
Utah	36	61	75	62	100	94	92	71
Vermont	14	33	70	51	86	83	90	51
Virginia	59	64	58	69	77	87	88	53
Washington	62	75	88	87	96	92	95	86
West Virginia	46	44	64	69	77	56	68	69
Wisconsin	29	53	71	64	42	76	81	81
Wyoming	67	50	67	89	100	100	67	89

[1] Administrative includes directors, consultants, supervisors, etc. Agencies include public health agencies and boards of education.

[2] 1972 figures include full time and part time RN's and are based on a 36 percent sample of staff. Prior years include full time only and percents are based on total staff RN's reported.

SOURCE: U.S. Department of Health, Education, and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43, Washington, U.S. Government Printing Office, 1974.

Table 128-Median annual salaries of registered nurses in selected public health agencies, by type of agency and position: 1975-1980

Type of Agency and position	1975	1976	1977	1978	1979	1980	Average annual percent change
Local health agencies							
Nurse directors	$17,500	$18,100	$19,675	$21,450	$23,200	$26,100	8.4
Supervisory nurses	14,413	15,260	16,531	17,156	18,091	18,788	5.5
Staff nurses	11,495	12,160	13,104	13,584	14,342	14,913	5.4
PHN (qualified)	12,033	12,830	13,808	13,692	14,705	15,749	5.9
Other regular nurses	10,626	11,470	12,460	13,067	13,526	13,823	5.4
Non-official agencies							
Nurse directors	$16,400	$18,007	$18,060	$18,950	$20,658	$22,563	6.6
Supervising nurses	12,714	13,463	14,588	14,918	16 ,222	17,103	6.1
Staff nurses	10,148	10,932	11,645	12,071	13,287	14,314	7.1
PHN (qualified)	10,715	11,400	12,130	12,613	13,635	14,908	6.8
Other regular nurses	9,815	10,543	11,099	11,819	12,738	13,934	7.3
Board of education[1]							
Supervising nurses	$15,700	$17,600	$18,375	$18,350	$20,150	$21,150	6.4
Staff nurses	11,605	12,901	13,998	14,789	15,436	16,482	7.3

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[1] No director classification in boards of education

SOURCE: National League for Nursing. "Salaries in Community Health Services", 1975-1980 Nursing Outlook December issues.

Table 129-Median annual salaries of licensed practical nurses and auxiliary nursing personnel in public health agencies 1975-1980

Personnel	1975 1/	1976	1977	1978	1979	1980	Average annual percent change
Licensed practical nurse	$7,935	$8,371	$8,995	$9,572	$10,344	$11,280	7.3
Auxiliary nursing	--	--	--	--	--	--	--
Public health assistant	7,382	7,615	8,544	8,775	9,502	9,528	5.3
Home health aide	5,766	6,366	6,522	6,675	7,205	8,088	7.1
Other auxiliary personnel	6,704	7,162	7,532	7,303	8,323	9,660	9.0

1/ Includes non-official agencies official state and local health agencies, and combination services.

SOURCE: National League for Nursing. "Salaries in Community Health Services", 1975-1980 Nursing Outlook December issues.

Table 130-Occupational health (industrial) nurses employed full-time: 1950 and 1960

Region and State	1950	1960
United States	10,796 1/	14,428 2/
Northeast	3,740	5,852
North Central	4,152	4,507
South	1,845	2,655
West	1,202	1,414
Alabama	134	157
Alaska	—	—
Arizona	35	54
Arkansas	19	31
California	618	1,003
Colorado	46	80
Connecticut	441	490
Delaware	45	74
District of Columbia	258	53
Florida	56	163 3/
Georgia	145	226
Hawaii	92	46
Idaho	3	19
Illinois	1,300	629 4/
Indiana	439	530
Iowa	99	138
Kansas	71	45
Kentucky	90	135
Louisiana	102	152 3/
Maine	55	59
Maryland	—	139
Massachusetts	634	838
Michigan	838	8[illegible]4
Minnesota	172	[illegible]39
Mississippi	44	53
Missouri	71	333
Montana	1	2
Nebraska	43	55
Nevada	11	8
New Hampshire	36	56
New Jersey	750	764
New Mexico	11	30
New York	685	2,673
North Carolina	121	187
North Dakota	—	—
Ohio	487	1,273
Oklahoma	46	80
Oregon	57	55
Pennsylvania	1,034	865 4/
Rhode Island	83	85
South Carolina	130	200 3/
South Dakota	3	4
Tennessee	241	286
Texas	154	405
Utah	[illegible]4	31
Vermont	22	22
Virginia	89	136
Washington	107	74
West Virginia	171	178
Wisconsin	429	467
Wyoming	5	12
Guam	—	—
Puerto Rico	—	86
Virgin Islands	—	—

1/ Total includes 39 nursing consultants employed by insurance companies assigned to two or more States.
2/ In addition, 314 nurses were reported employed part time in 25 States.
3/ Estimated
4/ Incomplete reports.

SOURCE: U.S. Department of Health, Education and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43 Washington, U.S. Government Printing Office, 1974.

Table 131-Administrative and staff registered nurses[1] employed full-time and part-time in occupational health (industry) by region and State: 1972

Region and State	Total[2]	Administrative[3]	Staff
United States	19,974	824	19,150
Northeast	7,260	157	7,103
North Central	6,305	377	5,928
South	4,120	150	3,970
West	2,289	140	2,149
Alabama	223	9	214
Alaska	4	—	4
Arizona	83	—	83
Arkansas	53	—	53
California	1,539	104	1,435
Colorado	162	26	136
Connecticut	497	27	470
Delaware	94	2	92
District of Columbia	192	—	192
Florida	319	—	319
Georgia	300	2	298
Hawaii	45	5	40
Idaho	26	—	26
Illinois	1,422	1	1,421
Indiana	649	23	626
Iowa	162	—	162
Kansas	109	—	109
Kentucky	187	11	176
Louisiana	177	—	177
Maine	87	3	84
Maryland	302	27	275
Massachusetts	697	14	683
Michigan	1,131	2	1,129
Minnesota	233	12	221
Mississippi	74	—	74
Missouri	412	45	367
Montana	5	—	5
Nebraska	75	5	70
Nevada	30	1	29
New Hampshire	66	—	66
New Jersey	2,101	91	2,010
New Mexico	46	—	46
New York	2,261	19	2,242
North Carolina	276	—	276
North Dakota	4	—	4
Ohio	1,555	—	1,555
Oklahoma	185	37	148
Oregon	104	—	104
Pennsylvania	1,423	3	1,420
Rhode Island	96	—	96
South Carolina	263	—	263
South Dakota	6	—	6
Tennessee	334	12	322
Texas	621	20	601
Utah	41	4	37
Vermont	32	—	32
Virginia	325	16	309
Washington	192	—	192
West Virginia	195	14	181
Wisconsin	547	289	258
Wyoming	12	—	12
Puerto Rico	188	17	171
Virgin Islands	4	—	4

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[1] Estimated from sample data in cooperation with National Institute for Occupational Safety and Health. Table excludes an estimated 1,240 licensed practical nurses and 935 auxiliary nursing personnel.

[2] Totals differ from the 1972 inventory (table 44) because, (a) data are referenced to January 1, not to the various licensing periods in the States and (b) figures are projected from employer counts, while the inventory uses self-enumeration techniques.

[3] Director, consultant, coordinator, supervisor and other administrative personnel.

SOURCE: U.S. Department of Health, Education and Welfare, Public Health Service, Division of Nursing. Source Book - Nursing Personnel. DHEW Publication No. (HRA) 75-43 Washington, U.S. Government Printing Office, 1974.

Table 132-Active registered nurses employed in occupational health (industrial) nursing, and distribution by census region: selected years 1949-77

Year	Total	Northeast	North Central	South	West
1949..............	6,143	2,310	2,060	817	956
1951..............	14,234	5,232	5,322	2,131	1,549
1957..............	17,538	6,189	6,293	3,093	1,963
1962..............	17,569	6,025	5,985	3,347	2,212
1966..............	18,155	5,959	6,241	3,697	2,258
1972..............	19,403	6,075	6,439	4,652	2,237
1977..............	20,736	5,798	6,759	5,612	2,557
			Percent		
1949..............	100.0	37.6	33.5	13.3	15.6
1951..............	100.0	36.7	37.4	15.0	10.9
1957..............	100.0	35.3	35.9	17.6	11.2
1962..............	100.0	34.3	34.1	19.0	12.6
1966..............	100.0	32.8	34.4	20.4	12.4
1972..............	100.0	31.3	33.2	24.0	11.5
1977..............	100.0	28.0	32.6	27.0	12.4

SOURCES: American Nurses' Association. Inventory of Professional Registered Nurses, 1949. New York. The Association, p. 18.
Ibid., 1951, p. 7; 1957, table 12; 1962, p. 29; 1966, p. 38; 1972, p. 41.

Table 133-Average weekly earnings of industrial registered nurses, by region, for February 1974, July 1975, and July 1978

Region	Average Weekly Earnings			Average annual percent change
	February	July	July	
United States	$192.00	$220.50	$280.50	9.9
Northeast	186.00	211.50	266.00	9.4
North Central	197.50	228.50	293.00	10.4
South	184.50	210.50	269.00	9.9
West	200.50	235.80	301.00	10.7

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics. *Occupational Earnings in All Metropolitan Areas*, February 1974, July 1975, and July 1978.

Table 134-Average annual salary of registered nurses employed full time in nursing by region and field of employment: September 1977

Field of employment	Total	West	North Central	South	North-east
Total	12,948	13,908	12,960	12,468	12,780
Hospital	13,152	14,184	13,152	12,648	13,020
Nursing home	1[illegible],300	13,356	11,988	11,376	12,528
Nursing education	14,796	16,644	15,756	13,992	13,752
Public health	12,948	14,904	12,432	12,396	12,912
Student health	11,544	12,852	10,452	10,716	11,616
Occupational health	13,596	14,028	15,072	13,092	12,624
Physician's office	10,416	10,704	10,452	9,996	10,572
Self employment	17,988	(1)	(1)	(1)	(1)
Private duty	11,736	(1)	(1)	11,976	11,220
Federal agency, state board of nursing	15,648	(1)	(1)	(1)	(1)
Temporary placement service	(1)	(1)	(1)	(1)	(1)
Other	13,404	(1)	(1)	(1)	(1)
Not reported	-	-	-	-	-

(1) Insufficient number of cases to compute average.

SOURCE: Roth, Aleda, et al., 1977 National Sample Survey of Registered Nurses, National Technical Information Service, Springfield, Va. 1979.

Chapter VI

Determining the Current and Future Supply of Nursing Personnel

Projections of the future supply of nursing personnel are important to the determination of the availability of services for the population. While this chapter deals only with the supply side of the picture, several recent studies have been made of requirements. These studies are reported in the several Reports to Congress on nursing and in individual study reports. The references can be found in the *Bibliography*.

In projecting the future supply of nurses earlier editions of the *Source Book, Nursing Personnel*, used a method first described in an article in *Nursing Research* in June 1957.[1] In essence the projection of future supply, as well as the estimates of the current supply, were dependent upon two sets of data: projections (or actual counts in the case of the current estimates) of the numbers graduating from basic nursing programs each year, and a net attrition rate. The net attrition rate subsumed within it the changes occurring to those already graduated and in the active work force, such as mortality and movement in-and-out of that work force.

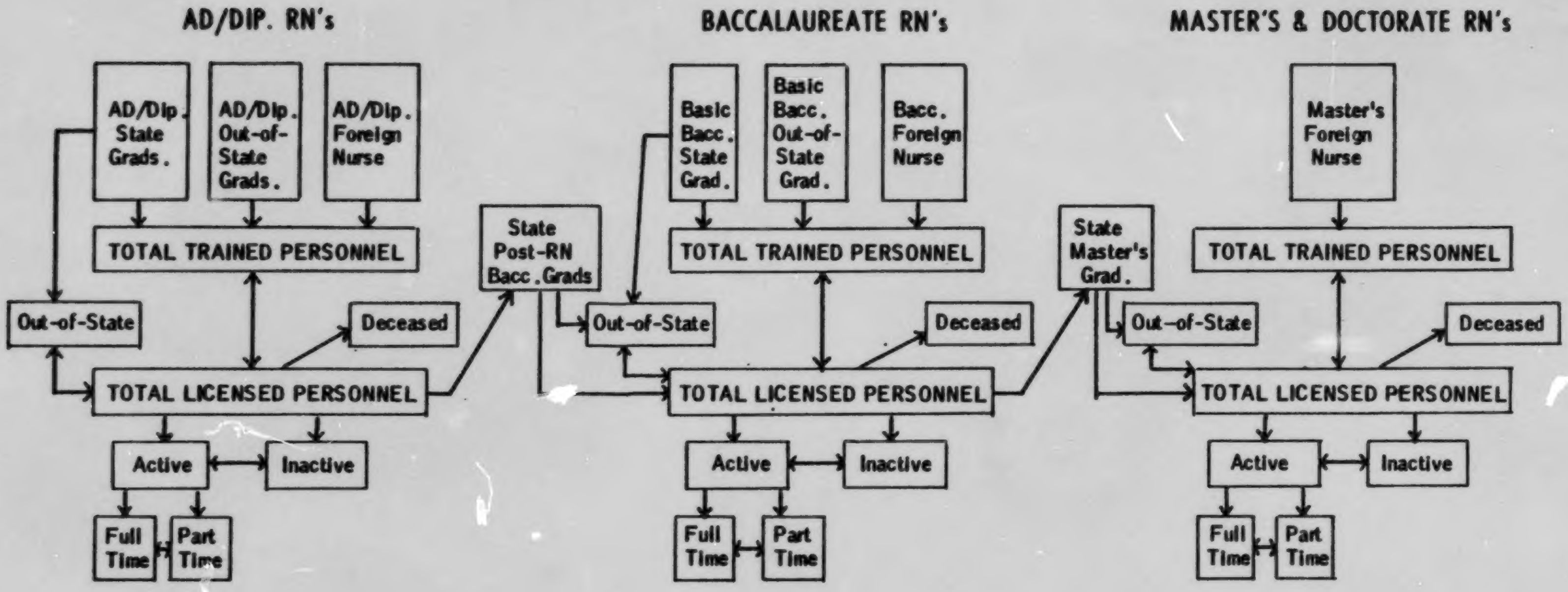
This net attrition rate methodology, while it indirectly considered the dynamics of the flow of the nurse population, did not take full advantage of the more detailed, descriptive data that were available on the nurse population. Accordingly, a study was undertaken by Research Triangle Institute (RTI) in 1974, under contract to the Division of Nursing in the Bureau of Health Manpower, HRA, to investigate techniques for estimating and projecting the nurse supply which would make full use of the data. The projection model developed by RTI was based on the licensed population of nurses and the flow of nurses in and out of the licensed population resource pool. The supply of nurses was estimated by multiplying the licensed population of nurses by the proportion of licensed nurses who were actively employed in nursing.[2]

Shortly after the completion of this study, P.L. 94-63, containing the Nurse Training Act of 1975, was passed. That law contained a provision (Section 951) for reports to Congress which would require, among other data requirements, that estimates and projections of registered nurses be developed according to the State-by-State educational preparation distribution of the registered nurse supply. The section also required developing supply projections for licensed practical (vocational) nurses by State.

Staff, originally in the Division of Nursing and subsequently in the Division of Health Professions Analysis, following the general design identified in the Research Triangle Institute study of projecting the registered nurse supply, made modifications in the application of existent data to the model, in the refinement of the original data used, and in the concept of loss of licenses identified in the Research Triangle Institute study. In addition, the necessity to develop projections of the supply of registered nurses according

Figure 3

ESTIMATING STATE'S RN SUPPLY


AD/DIP. RN's
AD/Dip. State Grads.
AD/Dip. Out-of-State Grads.
AD/Dip. Foreign Nurse
TOTAL TRAINED PERSONNEL
Out-of-State
Deceased
TOTAL LICENSED PERSONNEL
Active
Inactive
Full Time
Part Time
State Post-RN Bacc. Grads
BACCALAUREATE RN's
Basic Bacc. State Grad.
Basic Bacc. Out-of-State Grad.
Bacc. Foreign Nurse
TOTAL TRAINED PERSONNEL
Out-of-State
Deceased
TOTAL LICENSED PERSONNEL
Active
Inactive
Full Time
Part Time
State Master's Grad.
MASTER'S & DOCTORATE RN's
Master's Foreign Nurse
TOTAL TRAINED PERSONNEL
Out-of-State
Deceased
TOTAL LICENSED PERSONNEL
Active
Inactive
Full Time
Part Time

to educational preparation and the supply within each State, as well as the determination of the supply as it would relate to full-time equivalents, required the development of additional techniques and the application of additional data.

The Model Defined

This subsequent work evolved into a model which, to the extent allowed by the data available, follows the flow illustrated in figure 3. To properly identify the effects of the changes shown, as is the case in the model developed by RTI, each aspect of change is developed in the model as a function of age. There are 10 age groupings identified in the model base. National data are an aggregation of individual State data. There are three types of projections made on a State-by-State basis: the nurse population, which is all those with current licenses to practice; the nurse supply, which is all those practicing nursing, either full time or part time; and the full-time equivalent supply which is nurses practicing full time plus one-half of those practicing part time. In each instance, the projection is divided into three levels of highest educational attainment: associate degree or diploma; baccalaureate; master's and doctorate.

The cohort specific calculation of the nurse population proceeds in three sequential sections starting with the Associate Degree/Diploma highest educational level proceeding to the Baccalaureate highest educational level and completing the sequence with the Master's and Doctoral highest education level. These three educational areas were selected because of data availability and the general objectives of these educational programs. Since the formulas used for each of these steps are similar with the baccalaureate having the maximum numbers of interactions because new baccalaureate-prepared nurses come from both new entries into nursing and from the associate degree/diploma cohort, only the baccalaureate equation is presented here for illustration purposes:

$$\begin{aligned} C_{t+1,S,b,A+1} = {} & C_{t,S,b,A} - RL_{S,b,A}L - M_A C_{t,S,b,A} - E_{S,b,A}\,C_{t,S,b,A} \\ & - PGM_A GRM_{t,S}\,(1-E_{S,b,A}) + PLB_A\,NLB_{t,S}\,\left(1-\frac{M_A}{2}\right) \\ & + PGB_A GRB_{t,S}\,(1-E_{S,ad,A}) + I_{S,b,A}\,BCPOOL_A \end{aligned}$$

Where t is the model year
S is the State
b is the baccalaureate hi-ed level
A is the age group
C is the nurse population cohort
RL is the fraction of total net loss attributable to the cohort
L is the total net loss to the population
M is the mortality rate for an age group
E is the fraction of exo-migration attributable to the cohort of a State

PGM is the fraction of RNs earning master's degrees who are in an age group
GRM is the number of RNs receiving masters degrees
PLB is the fraction of newly licensed baccalaureate prepared nurses that are attributable to an age group
NLB is the number of newly licensed nurses who are baccalaureate prepared
PGB is the fraction of post-RN graduates who are in an age group
GRB is the number of post-RN graduates
ad is the associate degree/diploma hi-ed level
I is the fraction of the migration pool that intro-migrates to the cohort
BCPOOL is the baccalaureate migration pool

The age groupings used are on a 5-year basis. To accomplish annual projections, five model structures are in effect run simultaneonsly. The State and highest-education structures remain the same but five different age groupings are defined, each one moving the age limits of each age group 1 year forward.

The model draws on an extensive list of data sources. Included among these are the comprehensive surveys of the registered nurse population, licensure statistics and the educational statistics on basic and post-RN nursing education.

Data Underlying Recent Projections

The current estimates and projections are initiated from a data set based on the 1977 National Sample Survey of Registered Nurses amplified by data from the 1972 Inventory of Registered Nurses. To determine the losses through death to the nurse population each year, age-specific mortality rates based on the 1976 life tables for white females are used. This cohort was determined as the group most closely approximating registered nurses.

Changes in the nurse population which result from movement in and out of licensure status are not easily determined at this time because of lack of definitive data on lapsed and reinstated licenses. Therefore a "net loss" rate was established to be applied to the nurse population each year. This rate was derived from data obtained from the annual licensure statistics from the American Nurses' Association, the 1972 Inventory of Registered Nurses and the 1977 National Sample Survey of Registered Nurses. The same rate, developed from these data, was kept constant throughout the projection period since it was fairly small. For application to the data in the model the rate was made age-specific using the data in these same files.

Additions to the nurse population because of licenses issued to those who had never been licensed in the United States before, come from two sources: graduates of United States basic nursing educational programs and foreign-educated registered nurses. The number of new licensees from United States nursing education programs are determined from the latest available

State Board examination passage rates. These rates are kept constant throughout the current projection period. An examination of the data for the last years (through 1977) for which data were available when these projections were developed showed that the diploma and associate degree passage rates were relatively stable. Baccalaureate rates seemed to have declined slightly but, on the premise that they would not decline further, the latest rate was used.

To account for the non-U.S. graduate new licensees, a constant total of 3,700 foreign-trained nurses was included throughout the projection period. This estimate is based on the 1976 licensing data, the last such data available at the time the estimate was made. Since the requirement that foreign-trained nurses must take the licensing examination was first adopted in most States in the mid-1970's, trend data based on this requirement is not available. Furthermore, future implications of current immigration restrictions are difficult to determine. Therefore, it was judged best to maintain the constant number. The age distribution of both the U.S. and non-U.S. new licensees is based primarily on data from the 1977 National Sample Survey of Registered Nurses.

To determine the number in the supply, and the full-time equivalent supply, age group and education specific activity rates are applied to the nurse population derived from the equations illustrated above. These activity rates identify the proportion of the population employed in nursing. These rates, derived from the 1977 National Sample Survey of Registered Nurses and the 1972 Inventory of Registered Nurses were kept constant throughout the current projection period. It is important, however, to recognize that the rates are tied to age and education. Thus, while the individual rates were kept constant, the overall activity rate for the total population does vary since it is dependent on the age and educational distribution of the total nurse population.

Projections of the Registered Nurse Supply

Four sets of projections of the registered nurse supply were made based on assumptions about graduations from nursing education programs. The assumptions varied from a rather constrained picture of what future places and graduations might be in nursing education programs (Series D) to a somewhat "optimistic" view, based on the maintenance of the trend shown in the early 1970s (Series B). Series A reflects a continuation of the current trends and Series C examines the possibility of a decrease in associate degree education and an increase in the baccalaureate education. Thus, since all other factors in the model are treated the same in each projection series, the differences among the number of registered nurses anticipated as being in the future supply, are based solely on the assumptions made about nursing education in the future.

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Assumptions About Nursing Education Graduations

Series A

Series A has been developed as a "middle" level projection. It represents a "baseline", considering recent trends. In Series A, diploma program admissions continue to decline at a rate consistent with the prior data with the provision that some programs will operate throughout the projection period. Associate degree admissions are assumed to be most likely from the 17- to 34-year-old female component of the population, and future admissions to these programs would decline slightly as a proportion of this total population group. Baccalaureate admissions come basically from new high school graduates as do the diploma admissions, and together, these two admissions groups are examined as a proportion of new high school graduates attending nursing programs. This proportion continues in the negative trend it has shown in the late 1970s. The graduation rates applied to these admissions data were developed from an examination of trends in specific class graduation rates for the past 8 or 9 years. It should be noted here that, with the exception of the baccalaureate, which was more variable, the graduation rates varied very little for each program in the last 3 or 4 years. The rates used were 73 percent for diploma; 69 percent for associate degree, and 63 pecent for baccalaureate (this last is based on a conversion of all baccalaureate admissions to a 4-year basis). Post-RN baccalaureates from generic programs are a function of the basic graduates from these programs, with an additional fixed factor for those graduating from nongeneric programs. Master's degree graduates were determined from the maintenance of the linear trend in the number of programs; maintenance of the trend increases in average enrollment per program, and the proportion who were full time students stabilizing at 50 percent. Graduations were determined to be 35 percent of enrollments, which is the proportion noted for the 2 years the full time enrollment rate was 50 percent. In addition, to account for the master's graduates from non-NLN counted nursing programs, an additional fixed factor is applied to the graduate totals.

Series B

Series B is the so-called "higher" series. It is based on the assumption that current concerns about shortages of registered nurses would lead to reversals in the present admissions trends to basic programs and to increased higher level educational opportunities and students. Specifically, assumptions made define diploma program trends as the same as in Series A, but reverse associate degree program trends in that Series. Thus, in Series B, the decreasing trend in the proportion of 17- to 34-year-old females entering associate degree programs would reverse so that, about 1985-86, it would become the proportion it was in the mid-1970's and remain at that level through the rest of the projection period. Also, the trend of the combined baccalaureate and diploma admissions as a proportion of new high school graduates would reverse and by 1985-86 become the proportion it was in the early 1970's and remain at that level through the rest of the projection period. The proportion graduating from baccalaureate programs would become 65 percent, the estimate for the latest data, while the rates for the other programs would remain the same as in Series A. In addition to these higher levels of basic nursing graduates, it was assumed that the number of master's degree programs would increase to 328 by the end of the projection priod. This figure is based on an intramural study made of colleges and universities with an apparently proper milieu for added master's programs. It was further assumed that the trend toward part-time enrollment would reverse so that by the end of the projection period, 75 percent of the enrollees would be full time; thus changing the proportions of enrollments that graduated each year accordingly. The increase in the availability of "nursing" master's programs would offset, to some extent, the numbers of students attending "non-nursing" programs.

Series C

Series C is based on the premise that present concerns about the baccalaureate degree as the entrance level into practice would lead to a sharp decline in the proportion of 17- to 34-year-old females entering AD programs and a sharp increase in the number of baccalaureate programs available (an increase of 200 programs by the end of the projection period). This increase in baccalaureate programs was derived from the study mentioned earlier which examined colleges and universities having apparently proper milieus for added master's programs but which have no current nursing baccalaurate program either. Admissions to diploma programs were determined as they were in Series A, and the master's degree assumptions, as in Series B.

Series D

Series D is the most constrained set of projections, consisting of a combination of diploma and baccalaureate projections from Series A and the associate degree projections from Series C. In essence, it assumes that current discussions about the entrance level into practice leads to a sharp decline in admissions to associate degree programs. At the same time, however, there is no offsetting increase in baccalaureate admissions. Instead, baccalaureate admissions continue recent trends as demonstrated in data gathered by NLN from the schools. Series D also maintains the type of trends noted in the master's degree programs in Series A.

PROJECTIONS OF LICENSED PRACTICAL NURSE SUPPLY

The model used to estimate the current supply and project the future supply of licensed practical (vocational) nurses is similar in concept to the registered nurse model. However, the lack of current and detailed descriptive data on licensed practical nurses, similar to that available for registered nurses, precludes the availability of data for all the variables used in the registered nurse model. The latest available data on licensed practical nurses is the 1974 Inventory. In addition, there are the annual data on practical nursing educational programs and students. Presented here, therefore are projections for the United States as a whole.

Assumptions About Practical Nursing Education Graduations

Two sets of projections were produced for the licensed practical nurses based on alternative assumptions about the number of graduates from practical nursing programs from the year 1985 on. Since, the most likely group from which the practical nurse student today might be drawn is the 17- to 34-year-old females (as was true for the Associate Degree R.N. students) the number of practical nurse enrollees was considered in relation to that population cohort. For Series I, it was assumed that the proportion of the 17- to 34-year-olds enrolled in practical nurse programs would continue to decline as it has been in the recent past until 1985-86, at which time it would level off. For Series II, the declining trend was continued after 1985-86. Graduations were determined from these enrollments based on the latest graduation rate which was kept constant throughout the projection period. In both series, the number of graduates decrease throughout the projection period. In Series II, the decrease is substantial. The conversion of these new graduates to newly licensed practical nurses was determined from the latest State-Board examination passage rates available at the time the data were compiled. These rates were kept constant throughout the projection period, similiar to the treatment in the registered nurse projections.

References

1. Meyer, Burton. "Development of a Method for Determining Estimates of Professional Nurse Needs," Nursing Research, VI:1, June 1957, pp. 24-28
2. Jones, D.C., et al. Trends in Registered Nurse Supply, DHEW Publication No. (HRA) 76-15, Division of Nursing, BHM, HRA, PHS, DHEW, March 1976.

Table 135-Projected number of graduates from basic nursing programs preparing registered nurses, by type of program (Series A and B), academic years 1974-75 through 1999-2000

	Series A				Series B			
Academic year	Total	AD	Dip.	Bacc.	Total	AD	Dip.	Bacc.
1974-75 1/	73,915	32,183	21,562	20,170	73,915	32,183	21,562	20,170
1975-76 1/	77,065	34,625	19,861	22,579	77,065	34,625	19,861	22,579
1976-77 1/	77,755	36,289	18,014	23,452	77,755	36,289	18,014	23,452
1977-78 1/	77,874	36,556	17,131	24,187	77,874	36,556	17,131	24,187
1978-79 1/	77,148	36,280	15,820	25,048	77,148	36,280	15,820	25,048
1979-80 1/	75,523	36,034	14,495	24,994	75,523	36,034	14,495	24,994
1980-81	75,800	36,600	13,500	25,700	78,400	38,400	13,500	26,500
1981-82	75,000	36,600	12,700	25,700	80,300	39,300	12,700	28,300
1982-83	71,800	34,300	11,800	25,700	81,500	40,400	11,800	29,300
1983-84	70,600	34,300	11,000	25,300	81,500	40,700	11,000	29,800
1984-85	69,300	34,400	10,200	24,700	81,500	41,100	10,200	30,200
1985-86	67,700	34,400	9,500	23,800	81,100	41,400	9,500	30,200
1986-87	65,600	34,400	8,800	22,400	80,100	41,700	8,800	29,600
1987-88	63,800	34,300	8,200	21,300	79,100	41,700	8,200	29,200
1988-89	62,700	34,200	7,600	20,900	78,600	41,600	7,600	29,400
1989-90	62,100	34,200	7,100	20,800	78,600	41,500	7,100	30,000
1990-91	61,700	33,900	6,600	21,200	78,900	41,200	6,600	31,100
1991-92	60,400	33,500	6,200	20,700	77,900	40,700	6,200	31,000
1992-93	59,900	33,100	5,700	21,100	78,100	40,200	5,700	32,200
1993-94	56,700	32,600	5,300	18,800	74,400	39,600	5,300	29,500
1994-95	54,500	32,100	4,900	17,500	71,900	39,000	4,900	28,000
1995-96	53,000	31,600	4,600	16,800	70,500	38,400	4,600	27,500
1996-97	52,000	31,200	4,300	16,500	70,900	37,900	4,300	28,700
1997-98	51,600	30,800	4,000	16,800	69,900	37,500	4,000	28,400
1998-99	51,300	30,600	3,700	17,000	70,100	37,100	3,700	29,300
1999-2000	51,300	30,400	3,400	17,500	70,800	36,900	3,400	30,500

1/ Actual data reported by the National League for Nursing for graduates of United States schools only.

SOURCES: National League for Nursing, State Approved Schools of Nursing--RN. Annual eds. 1976-80.

Estimates prepared by the Division of Health Professions Analysis, Health Resources Administration, U.S. Department of Health and Human Services, 1981.

Table 136-Projected number of graduates from basic nursing programs preparing registered nurses, by type of program (Series C and D), academic years 1974-75 through 1999-2000

Academic year	Series C Total	Series C AD	Series C Dip.	Series C Bacc.	Series D Total	Series D AD	Series D Dip.	Series D Bacc.
1974-75 1/	73,915	32,183	21,562	20,170	73,915	32,183	21,562	20,170
1975-76 1/	77,065	34,625	19,861	22,579	77,065	34,625	19,861	22,579
1976-77 1/	77,755	36,289	18,014	23,452	77,755	36,289	18,014	23,452
1977-78 1/	77,874	36,556	17,131	24,187	77,874	36,556	17,131	24,187
1978-79 1/	77,148	36,280	15,820	25,048	77,148	36,280	15,820	25,048
1979-80 1/	75,523	36,034	14,495	24,994	75,523	36,034	14,495	24,994
1980-81	73,400	34,200	13,500	25,700	73,400	34,200	13,500	25,700
1981-82	71,500	33,100	12,700	26,300	71,500	33,100	12,700	25,700
1982-83	70,600	31,800	11,800	27,000	69,300	31,800	11,800	25,700
1983-84	68,700	30,000	11,000	27,700	66,300	30,000	11,000	25,300
1984-85	66,800	28,200	10,200	28,400	63,100	28,200	10,200	24,700
1985-86	64,900	26,400	9,500	29,000	59,700	26,400	9,500	23,800
1986-87	63,400	24,600	8,800	30,000	55,800	24,600	8,800	22,400
1987-88	63,200	24,500	8,200	30,500	54,000	24,500	8,200	21,300
1988-89	63,100	24,400	7,600	31,100	52,900	24,400	7,600	20,900
1989-90	63,300	24,400	7,100	31,800	52,300	24,400	7,100	20,800
1990-91	63,300	24,200	6,600	32,500	52,000	24,200	6,600	21,200
1991-92	63,200	23,900	6,200	33,100	50,800	23,900	6,200	20,700
1992-93	63,200	23,700	5,700	33,800	50,500	23,700	5,700	21,100
1993-94	63,100	23,300	5,300	34,500	47,400	23,300	5,300	18,800
1994-95	63,000	22,900	4,900	35,200	45,300	22,900	4,900	17,500
1995-96	63,000	22,600	4,600	35,800	44,000	22,600	4,600	16,800
1996-97	63,100	22,300	4,300	36,500	43,100	22,300	4,300	16,500
1997-98	63,200	22,000	4,000	37,200	42,800	22,000	4,000	16,800
1998-99	63,400	21,800	3,700	37,900	42,500	21,800	3,700	17,000
1999-2000	63,700	21,700	3,400	38,600	42,600	21,700	3,400	17,500

1/ Actual data reported by the National League for Nursing for graduates of United States schools only.

SOURCES: National League for Nursing, State-Approved Schools of Nursing--RN. Annual eds. 1976-80.

Estimates prepared by the Division of Health Professions Analysis, Health Resources Administration, U.S. Department of Health and Human Services, 1981.

Table 137-Projections of national active supply of registered nurses by educational preparation (Series A), 1980-2000

As of January 1	Total number of nurses					Full-time equivalencies				
	Total RNs 1/	AD/Dip.	Bacc.	Masters & Doct.	RNs per 100,000 pop. 1/	Total RNs	AD/Dip.	Bacc.	Masters & Doct.	RNs per 100,000 pop. 1/
1980	1,119,100	833,500	232,500	53,100	506	945,700	692,200	203,800	49,700	428
1981	1,163,800	856,100	250,300	57,400	520	983,800	710,800	219,300	53,600	440
1982	1,204,200	875,100	267,500	61,600	533	1,017,700	726,100	234,000	57,700	450
1983	1,245,400	895,100	284,300	66,100	546	1,052,700	742,600	248,300	61,800	462
1984	1,282,800	911,600	300,000	71,200	557	1,084,300	756,100	261,500	66,700	471
1985	1,316,600	925,400	314,800	76,400	566	1,112,600	767,100	273,900	71,600	479
1986	1,350,700	939,800	328,900	82,000	576	1,141,400	779,000	285,600	76,900	487
1987	1,381,800	951,900	342,100	87,800	584	1,168,000	789,100	296,600	82,300	493
1988	1,412,600	965,700	353,200	93,700	591	1,194,400	800,900	305,600	87,900	500
1989	1,441,200	977,900	362,900	100,400	598	1,218,900	811,200	313,500	94,200	506
1990	1,467,600	988,600	372,000	107,000	604	1,241,500	820,100	321,000	100,400	511
1991	1,493,700	999,200	380,600	113,800	610	1,264,100	829,200	328,100	106,800	516
1992	1,518,700	1,007,900	389,600	121,200	615	1,286,500	837,000	335,800	113,700	521
1993	1,543,700	1,017,000	397,800	128,800	620	1,308,800	845,100	342,800	120,900	526
1994	1,567,800	1,024,900	406,000	136,900	626	1,330,600	852,200	349,900	128,400	531
1995	1,588,600	1,031,400	412,100	145,100	630	1,349,400	858,000	355,200	136,200	535
1996	1,607,200	1,037,200	416,700	153,400	633	1,366,500	863,300	359,200	143,900	538
1997	1,623,200	1,040,800	420,100	162,300	635	1,381,700	867,100	362,300	152,300	541
1998	1,638,600	1,044,500	422,500	171,600	638	1,396,400	870,700	364,600	161,000	543
1999	1,652,600	1,046,700	424,600	181,200	639	1,410,000	873,100	366,800	170,700	546
2000	1,666,000	1,048,900	426,000	191,000	641	1,423,000	875,400	368,300	179,300	548

1/ Population data used for computation of nurse-population ratios is based on Series II projections from the Bureau of the Census, U.S. Department of Commerce as reported in Projections of the Population of the United States, 1977-2050, Series P-25, No. 704, July 1977.

SOURCE: Estimates prepared by the Division of Health Professions Analysis, Health Resources Administration, U.S. Department of Health and Human Services, 1981.

Table 138-Projections of national active supply of registered nurses by educational preparation (Series B), 1980-2000

As of January 1	Total number of nurses					Full-time equivalencies				
	Total RNs 1/	AD/Dip.	Bacc.	Masters & Doct.	RNs per 100,000 pop. 1/	Total RNs	AD/Dip.	Bacc.	Masters & Doct.	RNs per 100,000 pop. 1/
1980	1,119,100	833,500	232,500	53,100	506	945,700	692,200	203,800	49,700	428
1981	1,164,400	856,100	250,900	57,500	520	984,400	710,800	219,800	53,700	440
1982	1,206,700	876,200	268,600	61,900	534	1,020,100	727,100	235,000	58,000	452
1983	1,252,000	898,200	287,300	66,500	549	1,058,700	745,300	251,100	62,300	464
1984	1,296,700	918,600	305,900	72,100	563	1,096,900	762,300	267,000	67,600	476
1985	1,338,700	936,700	324,300	77,700	576	1,132,500	777,000	282,700	72,800	487
1986	1,382,100	955,400	342,800	83,900	589	1,169,600	792,700	298,300	78,600	499
1987	1,423,300	971,900	361,200	90,300	601	1,205,100	806,500	314,000	84,600	509
1988	1,464,900	990,100	377,800	97,100	613	1,240,900	821,900	328,000	91,000	519
1989	1,504,800	1,006,600	393,500	104,700	624	1,275,300	835,800	341,300	98,200	529
1990	1,542,600	1,021,300	408,800	112,600	635	1,307,800	848,000	354,200	105,600	538
1991	1,580,400	1,035,700	423,900	120,800	645	1,340,500	860,300	366,900	113,300	547
1992	1,617,500	1,048,700	439,700	129,800	655	1,373,300	871,000	380,600	121,800	556
1993	1,654,500	1,060,400	454,700	139,400	665	1,406,000	881,800	393,400	130,800	565
1994	1,691,100	1,071,600	469,900	149,700	675	1,438,500	891,500	406,600	140,400	574
1995	1,723,800	1,081,000	482,400	160,400	683	1,467,500	899,600	417,300	150,500	582
1996	1,754,100	1,089,700	492,800	171,500	691	1,494,500	907,400	426,200	160,900	589
1997	1,781,700	1,096,300	501,800	183,700	697	1,519,700	913,400	434,000	172,300	595
1998	1,809,900	1,102,800	510,600	196,500	704	1,545,400	919,400	441,700	184,300	601
1999	1,836,200	1,107,500	518,500	210,100	710	1,569,700	923,800	448,700	197,100	607
2000	1,862,000	1,112,200	525,600	224,300	717	1,593,600	928,100	455,000	210,400	613

1/ Population data used for computation of nurse-population ratios is based on Series II projections from the Bureau of the Census, U.S. Department of Commerce as reported in Projections of the Population of the United States, 1977-2050, Series P-25, No. 704, July 1977.

SOURCE: Estimates prepared by the Division of Health Professions Analysis, Health Resources Administration, U.S. Department of Health and Human Services, 1981.

Table 139-Projections of national active supply of registered nurses by educational preparation (Series C), 1980-2000

As of January 1	Total number of nurses					Full-time equivalencies				
	Total RNs 1/	AD/Dip.	Bacc.	Masters & Doct.	RNs per 100,000 pop. 1/	Total RNs	AD/Dip.	Bacc.	Masters & Doct.	RNs per 100,000 pop. 1/
1980	1,119,100	833,500	232,500	53,100	506	945,700	692,200	203,800	49,700	428
1981	1,163,800	856,100	250,300	57,500	520	983,800	710,800	219,300	53,700	440
1982	1,202,700	873,500	267,200	61,900	532	1,016,400	724,700	233,800	58,000	450
1983	1,241,800	890,900	284,300	66,500	545	1,049,600	738,900	248,300	62,300	460
1984	1,278,300	905,300	300,800	72,100	555	1,080,500	750,600	261,400	67,600	469
1985	1,310,900	915,900	317,300	77,700	564	1,108,000	758,900	276,300	72,800	477
1986	1,343,500	925,500	334,100	83,800	573	1,135,800	766,800	290,500	78,600	484
1987	1,372,800	931,200	351,400	90,200	580	1,161,300	771,400	305,300	84,600	490
1988	1,402,300	937,000	368,300	97,000	587	1,187,000	776,400	319,600	91,000	[illegible]
1989	1,430,900	940,900	385,300	104,700	594	1,212,100	779,700	334,100	98,200	[illegible]
1990	1,458,100	943,100	402,400	112,500	600	1,235,900	781,600	348,800	105,500	509
1991	1,458,400	945,200	419,400	120,700	606	1,260,400	783,700	363,400	113,300	[illegible]
1992	1,511,900	945,200	436,900	129,700	612	1,284,600	784,300	378,600	121,700	520
1993	1,539,200	945,900	454,000	139,300	619	1,309,600	785,500	393,300	130,700	526
1994	1,565,900	945,400	470,900	149,600	625	1,334,300	785,800	408,100	140,400	532
1995	1,591,400	943,800	487,400	160,300	631	1,357,800	784,900	422,500	150,400	538
1996	1,616,400	940,900	504,100	171,400	637	1,381,200	783,300	437,100	160,800	544
1997	1,639,500	935,600	520,400	183,600	642	1,403,300	779,700	451,300	172,300	549
1998	1,663,100	930,400	536,300	196,400	647	1,425,700	776,200	465,300	184,300	555
1999	1,685,600	923,700	551,800	210,100	652	1,447,400	771,300	479,000	197,100	560
2000	1,707,800	917,000	566,600	224,300	657	1,468,700	766,300	492,000	210,400	565

1/ Population data used for computation of nurse-population ratios is based on Series II projections from the Bureau of the Census, U.S. Department of Commerce as reported in Projections of the Population of the United States, 1977-2050, Series P-25, No. 704, July 1977.

SOURCE: Estimates prepared by the Division of Health Professions Analysis, Health REsources Administration, U.S. Department of Health and Human Services, 1981.

Table 140-Projections of national active supply of registered nurses by educational preparation (Series D), 1980-2000

As of January 1	Total number of nurses					Full-time equivalencies				
	Total RNs 1/	AD/Dip.	Bacc.	Masters & Doct.	RNs per 100,000 pop. 1/	Total RNs	AD/Dip.	Bacc.	Masters & Doct.	RNs per 100,000 pop. 1/
1980	1,119,100	833,500	232,500	53,100	506	945,700	692,200	203,800	49,700	428
1981	1,163,800	856,100	250,300	57,400	520	983,800	710,800	219,300	53,600	440
1982	1,202,600	873,500	267,500	61,600	532	1,016,300	724,700	234,000	57,100	450
1983	1,241,200	890,900	284,300	66,000	544	1,049,000	738,900	248,300	61,800	460
1984	1,276,700	905,400	300,000	71,200	555	1,078,900	750,700	261,500	66,700	469
1985	1,307,400	916,200	314,800	76,400	563	1,104,700	759,200	273,900	71,600	475
1986	1,337,100	926,200	328,900	82,000	570	1,129,800	767,300	285,600	76,900	482
1987	1,362,300	932,400	342,200	87,800	575	1,151,400	772,400	296,600	82,300	486
1988	1,386,000	939,100	353,200	93,700	580	1,171,600	778,100	305,600	87,900	490
1989	1,407,400	944,100	362,900	100,400	584	1,190,100	782,400	313,600	94,200	494
1990	1,426,800	947,800	372,000	107,000	587	1,206,800	785,400	321,000	100,400	497
1991	1,445,900	951,400	380,700	113,800	590	1,223,700	788,800	328,200	106,800	499
1992	1,464,000	953,100	389,700	121,100	593	1,240,400	790,800	335,900	113,700	502
1993	1,482,300	955,500	398,000	128,800	596	1,257,200	793,400	342,900	120,900	505
1994	1,500,000	956,900	406,200	136,800	599	1,273,800	795,300	350,100	128,400	508
1995	1,514,500	957,100	412,300	145,100	600	1,287,500	795,900	355,400	128,700	510
1996	1,526,900	956,600	417,000	153,300	601	1,299,600	796,200	359,500	143,900	512
1997	1,536,700	954,000	420,400	162,300	601	1,309,800	794,900	362,300	152,300	513
1998	1,546,200	951,800	423,000	171,500	602	1,319,600	793,700	365,000	161,000	513
1999	1,554,400	948,100	425,100	181,200	601	1,328,500	791,300	367,200	170,000	514
2000	1,562,200	944,600	426,600	191,000	601	1,336,800	788,800	368,800	179,300	515

1/ Population data used for computation of nurse-population ratios is based on Series II projections from the Bureau of the Census, U.S. Department of Commerce as reported in Projections of the Population of the United States, 1977-2050, Series P-25, No. 704, July 1977.

SOURCE: Estimates prepared by the Division of Health Professions Analysis, Health Resources Administration, U.S. Department of Health and Human Services, 1981.

Table 141-Estimated active supply of registered nurses in each State and region by educational preparation (Series A), January 1980

Region and State	Total employed					Full-time equivalent				
	Total Rns1/	AD/Dip.	Bacca-laureate	Master's & Doct.	RNs per 100,000 pop.2/	FTE Rns1/	AD/Dip.	Bacca-laureate	Master's & Doct.	RNs per 100,000 pop.2/
United States........	1,119,100	833,500	232,500	53,100	506	945,700	692,200	203,800	49,700	428
New England..........	90,900	67,390	18,870	4,590	728	71,400	51,580	15,670	4,220	572
Connecticut........	20,900	15,050	5,100	760	670	16,000	11,260	4,100	690	514
Maine..............	6,300	5,200	920	130	562	5,000	4,090	780	120	448
Massachusetts......	46,300	34,960	8,530	2,820	779	36,400	26,640	7,160	2,580	612
New Hampshire......	6,600	5,040	1,430	160	768	5,400	4,030	1,210	150	625
Rhode Island.......	7,100	4,610	1,910	530	738	5,600	3,510	1,620	500	589
Vermont............	3,700	2,550	980	190	762	3,000	2,050	800	180	621
Middle Atlantic......	217,800	166,120	40,060	11,680	569	179,100	132,960	35,270	10,860	468
New Jersey.........	39,800	31,410	7,080	1,310	534	31,200	24,110	5,970	1,150	419
New York...........	106,000	77,530	21,490	7,020	558	88,900	63,360	19,000	6,540	468
Pennsylvania.......	72,000	57,180	11,490	3,350	610	59,000	45,490	10,300	3,170	499
South Atlantic.......	164,800	126,700	29,890	8,180	453	142,500	108330	26,550	7,700	392
Delaware...........	4,600	3,580	830	180	767	3,800	2,890	730	170	634
District of Columbia......	7,200	3,850	2,120	1,190	1,051	6,400	3,380	1,910	1,110	940
Florida............	43,800	34,710	7,660	1,420	459	38,300	30,160	6,790	1,320	401
Georgia............	16,900	12,390	3,190	1,320	320	15,200	11,020	2,890	1,280	288
Maryland...........	23,900	17,880	4,500	1,550	552	19,700	14,370	3,870	1,440	454
North Carolina.....	22,300	17,410	4,100	780	387	19,600	15,140	3,720	730	340
South Carolina.....	12,700	9,980	2,150	550	421	11,200	8,710	1,960	530	372
Virginia...........	23,700	18,340	4,420	970	447	19,900	15,130	3,870	910	375
West Virginia......	9,700	8,560	920	220	529	8,400	7,370	810	210	458
East South Central...	53,300	39,960	10,880	2,450	380	47,500	35,250	9,950	2,340	338
Alabama............	12,800	9,200	2,890	680	340	11,500	8,160	2,670	630	306
Kentucky...........	14,000	10,380	2,940	720	397	12,100	8,830	2,630	680	344
Mississippi........	8,700	6,710	1,590	390	361	8,000	6,150	1,490	390	333
Tennessee..........	17,800	13,670	3,460	660	410	15,900	12,110	3,160	640	366
West South Central...	77,400	52,700	21,490	3,210	350	69,200	46,580	19,570	3,070	313
Arkansas...........	5,800	4,560	1,050	170	261	5,100	4,020	960	160	232
Louisiana..........	13,500	9,340	3,770	410	350	12,000	8,130	3,440	390	305
Oklahoma...........	9,400	6,730	2,460	190	331	8,300	5,930	2,220	190	294
Texas..............	48,700	32,070	14,210	2,440	371	43,800	28,500	12,950	2,330	333
East North Central...	209,200	161,020	39,350	8,900	508	178,500	135,590	36,640	8,420	433
Illinois...........	54,800	41,620	10,440	2,710	489	45,600	33,900	9,160	2,560	407
Indiana............	27,600	20,560	5,720	1,310	517	22,700	16,550	4,920	1,270	426
Michigan...........	42,400	32,790	7,870	1,770	460	34,400	26,100	6,700	1,630	372
Ohio...............	56,900	46,610	8,550	1,700	532	54,500	44,590	8,260	1,660	294
Wisconsin..........	27,500	19,440	6,770	1,410	582	21,300	14,450	5,600	1,300	452
West North Central...	97,800	74,480	19,750	3,610	578	7,900	59,140	16,550	3,310	467
Iowa...............	15,900	12,570	2,800	480	552	12,800	9,940	2,360	460	444
Kansas.............	12,500	9,710	2,400	370	539	10,500	8,060	2,090	350	454
Minnesota..........	28,600	20,370	6,700	1,480	713	22,100	15,280	5,440	1,350	551
Missouri...........	23,500	18,610	3,790	1,110	488	19,700	15,470	3,250	1,000	409
Nebraska...........	8,700	6,800	1,790	130	545	7,000	5,340	1,510	120	440
North Dakota.......	4,300	3,090	1,200	10	663	3,500	2,480	1,000	10	540
South Dakota.......	4,400	3,300	1,070	30	643	3,500	2,570	900	20	509
Mountain.............	55,400	37,840	14,590	2,860	519	48,400	32,650	13,070	2,730	454
Arizona............	13,200	9,290	3,070	870	518	12,900	9,000	3,000	860	503
Colorado...........	18,500	11,580	5,730	1,170	657	15,700	9,560	5,070	1,090	559
Idaho..............	4,200	3,500	630	90	475	3,400	2,840	520	90	388
Montana............	2,900	1,880	940	50	366	2,300	1,480	780	50	293
Nevada.............	2,800	2,040	650	60	418	2,500	1,820	600	60	374
New Mexico.........	5,400	3,720	1,500	180	435	4,800	3,210	1,380	170	383
Utah...............	6,100	4,100	1,630	360	462	5,000	3,330	1,350	340	381
Wyoming............	2,200	1,730	440	80	553	1,800	1,410	370	70	455
Pacific..............	152,500	107,220	37,590	7,660	514	129,800	90,090	32,570	7,060	437
Alaska.............	2,400	1,230	1,050	110	581	2,100	1,050	910	100	502
California.........	108,500	78,720	24,540	5,200	487	92,900	66,610	21,470	4,800	417
Hawaii.............	5,900	3,650	1,980	320	634	5,500	3,350	1,820	300	584
Oregon.............	14,600	10,010	4,130	430	601	11,900	8,070	3,400	400	490
Washington.........	21,100	13,610	5,890	1,600	580	17,400	11,010	4,970	1,460	479

1/ Figures may not add to totals because of rounding.

2/ Population data used for computation of nurse-population ratios is based on Series IIB projections from the Bureau of the Census, U.S. Department of Commerce as reported in Illustrative Projections of State Populations by Age, Race and Sex: 1975 to 2000, Series P-25, No. 796, March 1979.

SOURCE: Estimates prepared by the Division of Health Professions Analysis, Health Resources Administration, Department of Health and Human Services, 1981.

Table 142-Projected active supply of registered nurses in each State and region by educational preparation (Series A), January 1980 and 2000

Region and State	1990 Total employed					2000 Total employed				
	Total RNs1/	AD/Dip.	Bacca-laureate	Master's & Doct.	RNs per 100,000 pop.2/	FTE RNs1/	AD/Dip.	Bacca-laureate	Master's & Doct.	RNs per 100,000 pop.2/
United States........	1,467,600	988,600	377,980	107,010	604	1,666,000	1,048,920	426,010	191,040	641
New England..........	119,300	77,800	29,440	10,030	[illegible]	134,800	82,640	33,790	17,310	940
Connecticut........	29,200	18,900	8,590	1,730	[illegible]	34,800	20,910	10,660	3,220	1,035
Maine..............	7,600	5,680	1,740	180	759	8,600	6,030	2,230	300	614
Massachusetts......	56,500	39,170	10,540	6,750	880	663,200	40,860	9,840	12,500	930
New Hampshire......	9,400	6,320	2,810	260	943	11,500	7,190	3,840	470	1,041
Rhode Island.......	9,600	4,860	3,870	830	919	10,900	4,700	4,810	1,350	979
Vermont............	5,000	2,870	1,890	280	934	5,800	2,950	2,410	470	1,004
Middle Atlantic......	245,800	173,610	53,070	19,080	622	256,800	171,270	53,530	31,970	638
New Jersey.........	48,700	35,460	11,000	2,210	611	51,500	34,180	13,530	3,810	616
New York...........	112,000	75,590	24,790	11,580	576	114,300	74,400	20,460	19,440	581
Pennsylvania.......	85,100	62,560	17,280	5,290	702	91,000	62,690	19,540	8,720	744
South Atlantic.......	228,100	159,850	49,920	18,340	537	262,900	172,570	57,030	33,330	554
Delaware...........	6,200	4,270	1,570	360	956	7,100	4,580	1,890	640	1,038
District of Columbia......	10,200	4,050	3,430	2,690	1,569	11,500	4,220	2,500	4,800	1,850
Florida............	68,300	50,670	14,740	2,840	563	86,200	61,100	19,880	5,200	605
Georgia............	19,500	12,390	3,040	4,120	320	19,900	10,480	1,580	7,820	292
Maryland...........	34,600	23,370	7,850	3,370	705	40,600	24,740	9,740	6,110	751
North Carolina.....	28,600	20,550	6,420	1,630	437	31,600	21,930	6,770	2,910	440
South Carolina.....	16,900	12,090	3,670	1,170	491	18,400	12,120	4,120	2,120	478
Virginia...........	31,900	22,530	7,580	1,790	524	36,100	24,210	8,820	3,100	545
West Virginia......	11,900	9,930	1,620	370	608	11,500	9,190	1,730	630	561
East South Central...	79,000	54,770	18,880	5,400	511	94,100	63,550	29,860	9,700	569
Alabama............	19,700	11,880	6,350	1,490	479	23,200	13,620	6,870	2,690	528
Kentucky...........	20,100	14,440	4,440	1,230	511	24,100	16,900	5,150	2,090	566
Mississippi........	13,600	10,010	2,580	1,040	523	16,500	12,220	2,440	1,850	602
Tennessee..........	25,600	18,440	5,510	1,640	534	30,300	20,810	6,400	3,070	588
West South Central...	110,500	63,240	39,660	7,680	440	130,000	67,930	47,700	14,360	471
Arkansas...........	6,800	4,840	1,400	590	277	7,300	4,640	1,370	1,270	273
Louisiana..........	17,800	9,760	7,170	870	420	18,600	8,770	8,280	1,580	418
Oklahoma...........	13,000	8,300	4,300	430	412	15,100	9,240	5,040	770	440
Texas..............	72,900	40,340	26,790	5,790	477	89,000	45,280	33,010	10,740	522
East North Central...	273,100	192,040	62,930	19,040	638	305,800	201,520	71,740	32,610	693
Illinois...........	65,400	46,790	13,970	4,670	564	68,600	46,910	13,790	7,920	579
Indiana............	38,700	25,470	10,310	2,920	695	43,400	25,070	12,9500	5,430	763
Michigan...........	54,400	37,540	12,800	5,000	557	62,200	40,600	14,010	7,590	616
Ohio...............	77,300	59,200	14,400	3,680	725	88,900	64,740	17,350	6,760	809
Wisconsin..........	37,300	23,040	11,450	2,770	720	42,700	24,200	13,640	4,910	776
West North Central...	125,500	86,940	31,870	6,890	697	138,100	90,530	35,880	11,740	736
Iowa...............	19,000	13,730	4,470	830	631	19,600	13,530	4,670	1,400	631
Kansas.............	15,300	10,710	3,870	700	629	16,800	11,150	4,430	1,240	667
Minnesota..........	38,000	24,600	10,470	2,910	880	44,300	26,870	12,240	5,150	976
Missouri...........	31,100	22,850	6,300	1,910	609	33,700	23,370	7,030	3,300	635
Nebraska...........	10,500	7,520	2,680	330	609	11,100	7,500	2,990	590	998
North Dakota.......	6,100	4,010	2,100	10	884	7,200	4,980	2,240	10	998
South Dakota.......	5,500	3,520	1,980	20	768	5,400	3,130	2,280	40	735
Mountain.............	81,400	48,860	26,470	6,140	633	98,200	53,710	33,450	11,170	671
Arizona............	18,500	11,450	5,340	1,690	570	21,300	11,430	6,870	3,010	562
Colorado...........	28,800	15,370	10,570	2,880	848	35,900	17,560	13,000	5,290	926
Idaho..............	5,700	4,340	1,230	160	542	6,400	4,540	1,610	280	541
Montana............	2,600	1,300	1,210	90	292	2,400	980	1,240	140	243
Nevada.............	4,300	2,930	1,310	90	544	5,300	3,470	1,720	150	591
New Mexico.........	9,700	6,100	3,290	310	665	13,000	7,730	4,730	540	800
Utah...............	8,600	5,240	2,590	800	555	10,100	5,610	3,050	1,460	573
Wyoming............	3,200	2,130	930	120	675	3,800	2,390	[illegible]	200	732
Pacific..............	206,800	131,500	59,850	15,500	622	245,300	145,240	72,060	27,980	681
Alaska.............	4,000	1,590	2,170	230	815	5,000	1,780	2,800	430	924
California.........	144,200	96,200	37,560	10,440	577	170,300	107,390	44,030	18,840	628
Hawaii.............	9,700	5,100	3,960	670	899	12,000	5,630	5,190	1,210	1,016
Oregon.............	21,700	13,530	7,390	820	786	27,200	15,850	9,840	1,490	891
Washington.........	27,200	15,080	8,770	3,340	694	30,800	14,590	10,200	6,010	745

1/ Figures may not add to totals because of rounding.

2/ Population data used for computation of nurse-population ratios is based on Series IIB projections from the Bureau of the Census, U.S. Department of Commerce as reported in Illustrative Projections of State Populations by Age, Race and Sex: 1975 to 2000, Series P-25, No. 796, March 1979.

SOURCE: Estimates prepared by the Division of Health Professions Analysis, Health Resources Administration, Department of Health and Human Services, 1981.

Table 143-Projected number of practical nursing graduates, academic years 1974-75 through 1999-2000

Academic year	Series I	Series II
1974-75 1/	45,375	45,375
1975-76 1/	47,145	47,145
1976-77 1/	46,614	46,614
1977-78 1/	45,350	45,350
1978-79 1/	44,235	44,235
1979-80	42,300	42,300
1980-81	41,500	41,500
1981-82	40,800	40,800
1982-83	39,300	39,300
1983-84	38.000	38,000
1984-85	36,600	36,600
1985-86	35,200	35,200
1986-87	35,200	33,900
1987-88	35,100	32,600
1988-89	35,000	31,400
1989-90	34,800	30,000
1990-91	34,400	28,500
1991-92	33,900	27,200
1992-93	33,400	25,800
1993-94	32,900	24,500
1994-95	32,400	23,200
1995-96	32,000	22,100
1996-97	31,600	21,000
1997-98	31,300	20,000
1998-99	31,200	19,200
1999-2000	31,100	18,500

1/ Actual data reported by the National League for Nursing for graduates of United States schools only.

SOURCES: National League for Nursing, State-Approved Schools for Nursing - LPN/LVN. Annual eds. 1976-1980.

Estimates prepared by the Division of Health Professions Analysis, Health Resources Administration, Department of Health and Human Services, 1981.

Table 144-Projections of national active supply of licensed practical nurses 1980-2000

As of January 1	Series I Total number of nurses	Series I FTEs	Series I Total nurses per 100,000 pop.[1]	Series I FTEs per 100,000 pop.[1]	Series II Total Number of nurses	Series II FTEs	Series II Total nurses per 100,000 pop.[1]	Series II FTES per 100,000 pop.[1]
1980	549,300	480,100	248	217	549,300	480,100	248	217
1981	564,500	493,100	252	220	564,500	493,100	252	220
1982	578,900	505,700	256	224	578,900	505,700	256	224
1983	592,700	517,800	260	227	592,700	517,800	260	227
1984	605,400	528,800	263	230	605,400	528,800	263	230
1985	617,100	539,100	266	232	617,100	539,100	266	232
1986	627,800	548,400	268	234	627,800	548,400	268	234
1987	637,500	557,200	269	235	637,500	557,200	269	235
1988	647,300	565,700	271	237	646,300	564,900	271	236
1989	657,100	574,600	273	238	654,300	572,200	271	237
1990	666,900	583,200	274	240	661,500	578,500	272	238
1991	676,600	592,100	276	242	667,900	584,100	273	238
1992	686,200	600,400	278	243	673,400	588,900	273	238
1993	695,500	608,600	280	245	678,200	593,400	273	238
1994	704,600	616,900	281	246	682,200	596,900	272	238
1995	713,500	624,600	283	248	685,500	599,900	272	238
1996	722,100	631,800	284	249	688,200	601,800	271	237
1997	733,500	639,200	286	250	690,400	603,700	270	236
1998	738,800	644,100	287	251	692,000	605,200	269	235
1999	747,100	653,300	289	253	693,400	606,000	268	234
2000	755,400	660,200	201	254	694,500	606,300	267	233

[1] Population data used for computation of nurse-population ratios is based on Series II projections from the Bureau of the Census, U.S. Department of Commerce, as reported in Projections of the Population of the United States, 1977 to 2050, Series P-25, No. 704 July 1977.

SOURCE: Estimates prepared by the Division of Health Professions Analysis, Health Resources Administration, U.S. Department of Health and Human Services, 1981.

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